

ORDER NO. EMID0105016C0

A4

Service Manual

Digital Piano

SX-PX665

Colours

(K) Black

(M) Walnut

Areas

(P) U.S.A.

(PC) Canada

(EX) Norway, Denmark, Spain, Portugal, Poland, South Africa

(EG) Switzerland, France, Austria, Holland, Belgium, Italy

(EQ) Germany

(EB) the United Kingdom

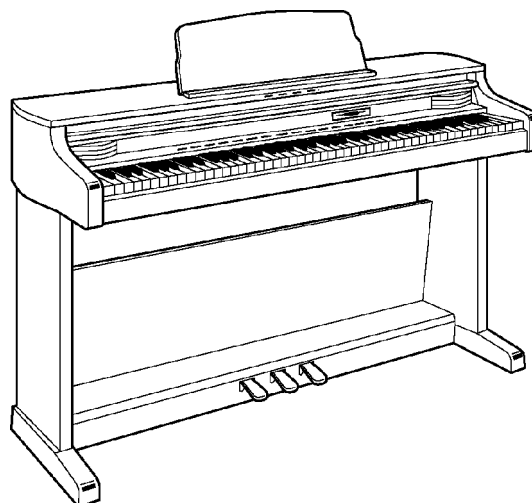
(GH) Hong Kong

(GT) Taiwan

(GM) Malaysia, Singapore

(GU) Thailand, Indonesia, Philippines

(GN) Australia, New Zealand



SPECIFICATIONS

SPECIFICATIONS

KEYBOARD	88 KEYS
SOUND GENERATOR	PCM
MAX. POLYPHONY	64 NOTES
SOUND	350 SOUNDS : GRAND, UPRIGHT, E PIANO, MODERN PIANO, HARPSI, VIBES, STRINGS, VOCAL, ORGAN PRESETS, GM/ OTHERS
SPLIT	LEFT SOUND, SPLIT POINT, LEFT VOLUME, LEFT OCTAVE, RIGHT OCTAVE, SUSTAIN PEDAL
PEDAL	SOFT, SOSTENUTO, SUSTAIN
EFFECT	DIGITAL EFFECT, PIANO AMBIENCE, DIGITAL REVERB, STRING RESONANCE
BRILLIANCE	MELLOW, BRIGHT (5 STEPS)
TOUCH SENSITIVITY	LIGHT, NORMAL, HEAVY
TRANPOSE	G-C-F#
METRONOME	BEAT: OFF, 2/2, 2/4, 3/4, 3/4, 4/4, 5/4, 6/ 4, 7/4, 3/8, 6/8, 9/8, 12/8, TEMPO
SEQUENCER	TRACK: 1-4, RHYTHM STORAGE CAPACITY: APPROX. 20000 NOTES, RECORDING MODE: REAL TIME COUNT IN, SEQUENCER VOLUME, RESET, STOP, PLAY, RECORD, BWD, FWD MENUS: SONG NAMING, TEMPO WRITE, PANEL WRITE, PART SETTING, FIXED TEMPO, SONG CLEAR, TRACK CLEAR
DISK DRIVE	3.5inch FLOPPY DISK DRIVE for 2HD (1.44MB), 2DD (720kB) SONG SELECT MENUS: SONG SAVE, SONG DELETE, DISK FORMAT
CONTROL	INITIALIZE, MASTER TUNING, KEY SCALING, PIANO TUNING, MINIMUM RANGE, REVERB CONTROL
MIDI	BASIC CHANNEL, LOCAL CONTROL, TRANPOSE OUT, PROGRAM CHANGE, PEDAL ON/OFF, EFFECT ON/OFF, PROGRAM CHANGE OUT
DISPLAY	LCD (16 CHARACTER × 2 LINES)
DEMO	O
TERMINALS	LINE OUT (R/MONO, L), AUX IN (R/MONO, L), MIDI (IN, OUT), COMPUTER, PEDAL IN, PHONES × 2
OUTPUT	120W (60W × 2)
SPEAKERS	14cm × 2, 6.5cm × 2

POWER REQUIREMENT	135W/ 180W (NORTH AMERICA AND MEXICO) AC120/ 220/ 230-240V 50/ 60Hz AC120V 60Hz (NORTH AMERICA AND MEXICO) AC230-240V 50/ 60Hz (EUROPE,AUSTRALIA, NEW ZEALAND, SINGAPORE AND PHILIPPINES)
DIMENSIONES (W×H×D)	142cm ×106.7cm × 51.4cm (55-29/32" × 42" × 20-1/4")
NET WEIGHT	55kg (121.3lbs)
ACCESSORIES	AC CORD

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

1. Warning

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. At places where special caution is required, the necessary safety precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner's Manual.
2. Parts which have a  mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.
3. Use the specified types for internal wiring (double-insulated wiring, etc.).
4. When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure it by soldering.
5. Do not let the wiring come into contact with heat-emitting devices (fuse resistor, radiator plate, etc.).
6. When replacing the wiring, make sure that it is not in contact with the unfinished or rough edge of a part.

7. When replacing the power cord (except for the plug-in type), tug it from various directions to confirm that it does not slip out of place.

8. Spacing

If soldering was done on the AC primary circuit, confirm that the interval between the soldered terminals or between the terminal and surrounding metallic parts is at least the minimum required (between the primary circuit and the chassis: at least 6.5 mm; between primary circuit terminals: at least 4.0 mm; between primary circuit terminals and secondary circuit terminals: at least 6.5 mm.).

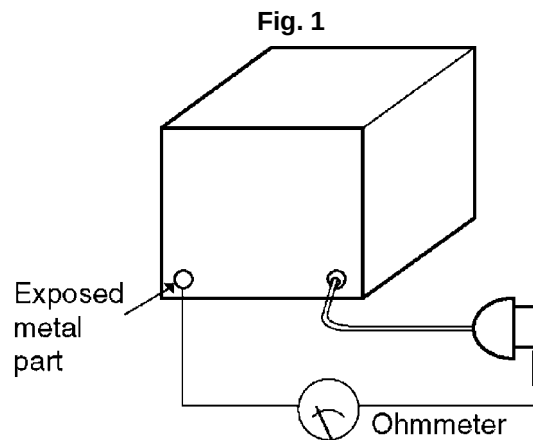
2. Safety Precaution

2.1. Safety Precaution

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only the manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

2.2. Insulation Resistance Test

1. Unplug the power cord and short the prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc. Measurements should range from 4 MOhm to infinity for all exposed parts. (refer to [Fig. 1](#))



3. How to Assemble the Piano

4. Sounds and Effects

5. Connections

6. Error Messages

7. Symptoms which Appear to be Signs of Trouble

8. Initial Setting

The following procedure resets all programmable settings, functions and memories to their initialized (factory-preset) status.

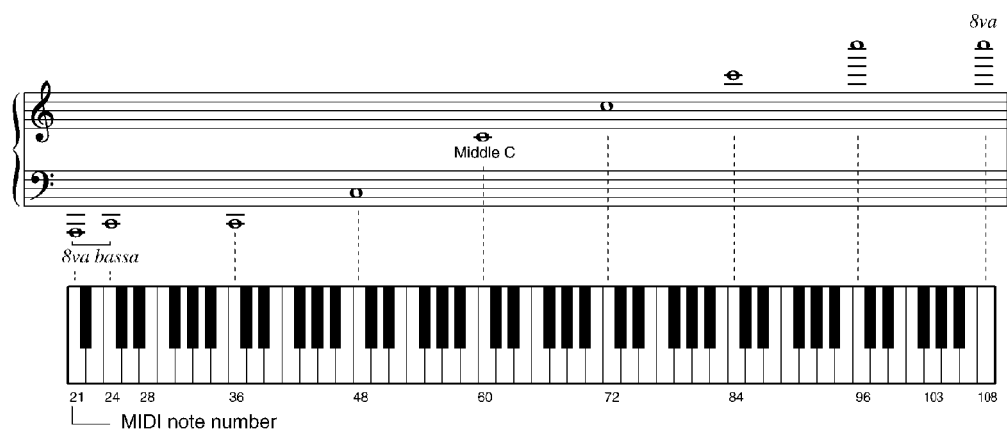
Use this procedure if the buttons, keys, etc. malfunction, or when you wish to reset the memories and functions.

1. Turn off the POWER button.

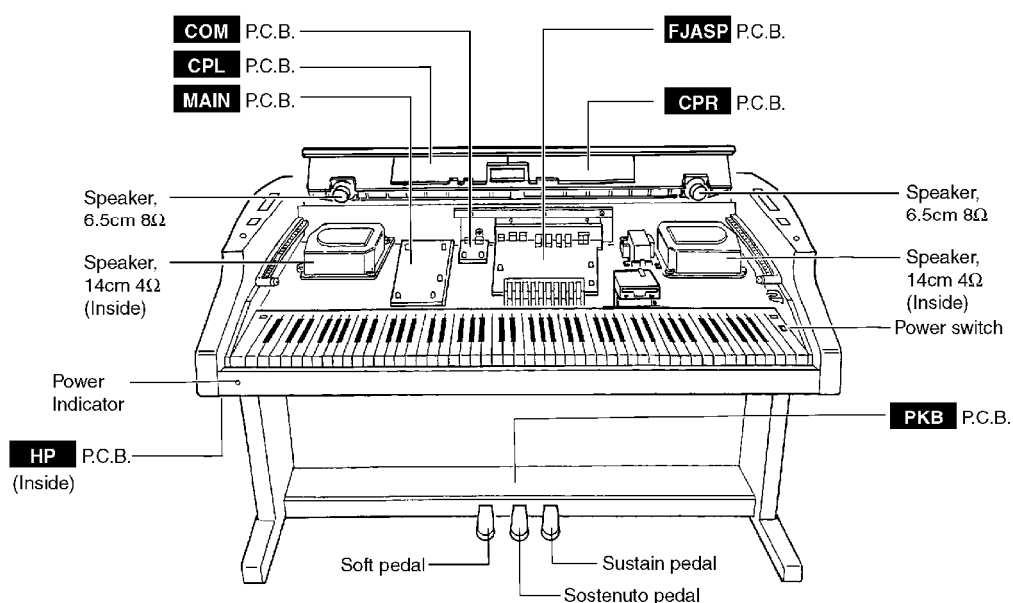
2. While pressing the INITIAL key at the same time, turn the POWER button on again.

Or, you can press the INITIAL key while the MODE SET button is pressed.

9. Keyboard Ranges and MIDI Note Number



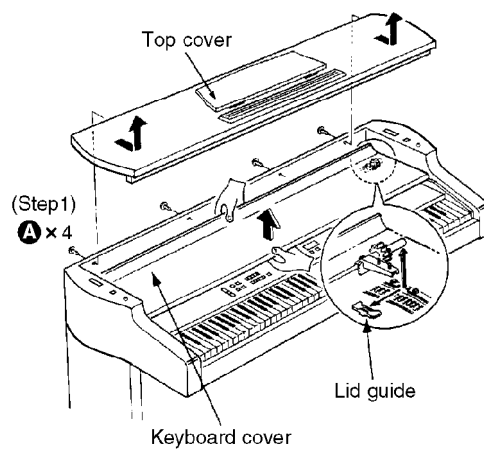
10. Parts Location



11. Disassembly Instructions

11.1. Removing the top cover and the keyboard cover

[Fig. 2]



(Step2)

Remove the top cover in the direction of arrows (refer to [\[Fig. 2\]](#)).

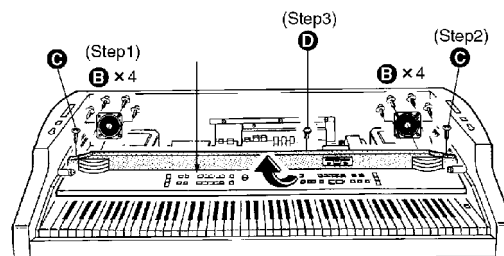
(Step3)

Remove the keyboard cover in the direction of arrow (refer to [\[Fig. 2\]](#)).

11.2. Removing the speaker and control panel

- Follow the (Step1)-(Step3) of item 11.1.

[Fig. 3]



(Step4)

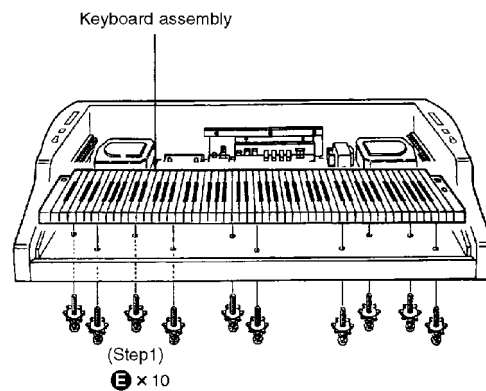
Slide the control panel forward and pull out in the direction of arrow (refer to [\[Fig. 3\]](#)).

11.3. Removing the keyboard assembly

- Follow the (Step1)-(Step3) of item 11.1.

- Follow the (Step1)-(Step3) of item 11.2.

[Fig. 4]



11.4. Disassembly and assembly of key(s)

- Follow the (Step1)-(Step3) of item 11.1.
- Follow the (Step1)-(Step3) of item 11.2.
- Follow the (Step1) of item 11.3. **[Fig. 4]**

11.4.1. Disassembly (white keys)

(Step1)

Insert the thin solid board between white key and black key, push the claw (refer to **[Fig. 5]**).

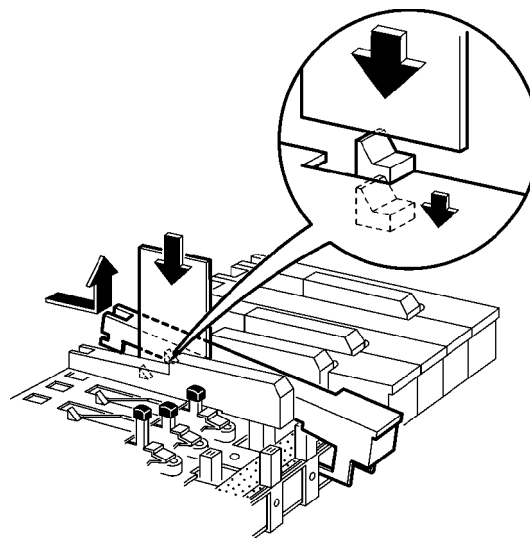
(Step2)

While pressing slightly the front of the key, push the rear of the key forward to disengage the key claw from the chassis (refer to **[Fig. 5]**).

(Step3)

Lift the key and remove it.

[Fig. 5]



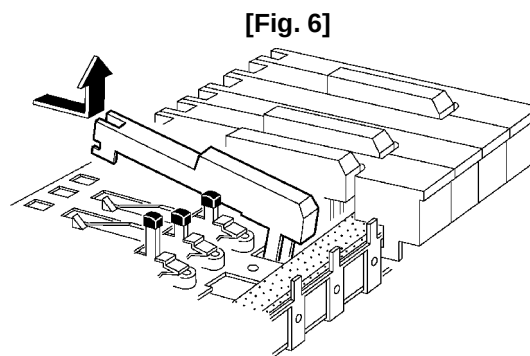
11.4.2. Disassembly (black keys)

(Step1)

While pressing slightly the front of the key, push the rear of the key forward to disengage the key claw from the chassis (refer to [\[Fig. 6\]](#))

(Step2)

Lift the key and remove it.



11.4.3. Assembly (both white and black keys)

(Step1)

Insert the front part of the key into the chassis.

(Step2)

Insert the plate spring into the hammer notch (refer to [\[Fig. 7\]](#)).

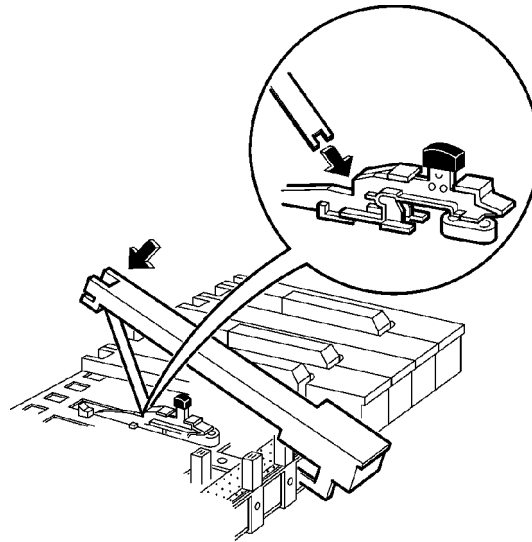
(Step3)

While slowly lowering the key into the chassis, insert the plate spring into the notch at the rear of the key (refer to [\[Fig. 7\]](#)).

(Step4)

Carefully insert the key into the opening in the chassis and slide the key towards the rear to lock it in place (refer to [\[Fig. 7\]](#)).

[Fig. 7]



11.5. Disassembly of the pedal assembly

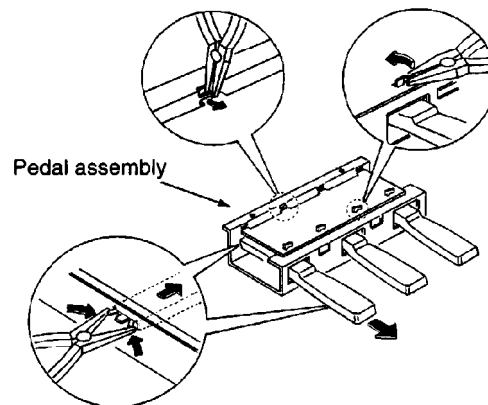
(Step1)

Remove the pedal assembly from the pedal box.

(Step2)

Disassemble the pedal assembly (refer to **[Fig. 8]**).

[Fig. 8]

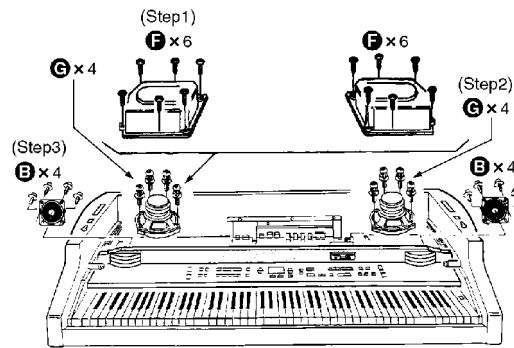


11.6. Removing the speakers

- Follow the (Step1)-(Step3) of item 11.1.

11.6.1. Removing the speakers

[Fig. 9]



11.7. Removing the printed circuit boards and floppy disc drive

- Follow the (Step1)-(Step3) of item 11.1.
- Pull out the connectors on the printed circuit boards.

11.7.1. Removing MAIN, FJASP, HP and COM P.C.B.

- MAIN P.C.B.

(Step1)

Remove the ground wire holding screw **H** (refer to [\[Fig. 10\]](#)).

(Step2)

Release the claws of the 5 P.C.B. holders (refer to [\[Fig. 10\]](#)).

- FJASP P.C.B.

(Step1)

Remove the 4 screws **I** x2 and **J** x2 (refer to [\[Fig. 10\]](#)).

(Step2)

Release the claws of the 3 P.C.B. holders.

- HP P.C.B.

- Follow the item 10.3.

(Step1)

Remove the headphone jack mounting nuts **K** x2 (refer to [\[Fig. 10\]](#)).

(Step2)

Remove the ground wire holding screw **L** (refer to [\[Fig. 10\]](#)).

(Step2)

Remove the HP P.C.B. mounting screws **M**×2 (refer to [\[Fig. 10\]](#)).

- COM P.C.B.

(Step1)

Remove the COM P.C.B. mounting screw **N** (refer to [\[Fig. 10\]](#)).

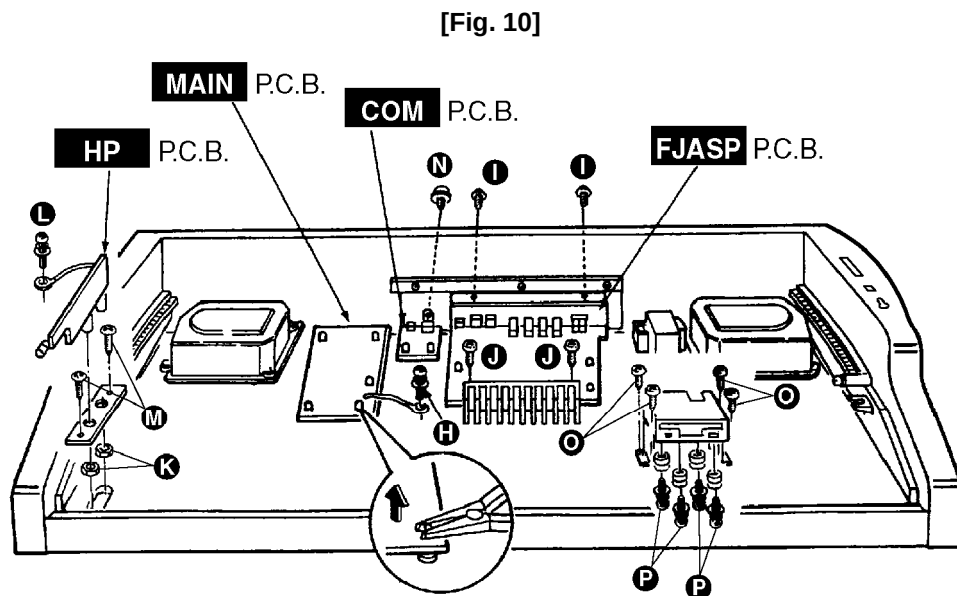
11.7.2. Removing the floppy disc drive

(Step1)

Remove the floppy disc drive angle mounting screws **O**×4 (refer to [\[Fig. 10\]](#)).

(Step2)

Remove the floppy disc drive mounting screws **P**×4 (refer to [\[Fig. 10\]](#)).



11.7.3. Removing CPL and CPR P.C.B.

- Follow the item 11.2.

- CPL P.C.B.

(Step1)

Pull the main volume knob (refer to [\[Fig. 11\]](#)).

(Step2)

Remove the CPL P.C.B. mounting screws **Q**×6, **R**×3 (refer to [\[Fig. 11\]](#)).

- CPR P.C.B.

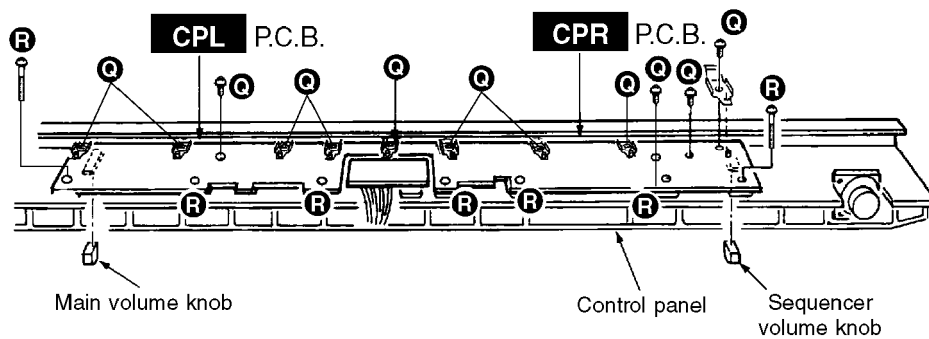
(Step1)

Pull the sequencer volume knob (refer to [\[Fig. 11\]](#)).

(Step2)

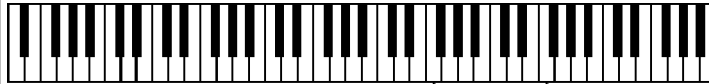
Remove the CPR P.C.B. mounting screws **Q**×7, **R**×4 (refer to [\[Fig. 11\]](#)).

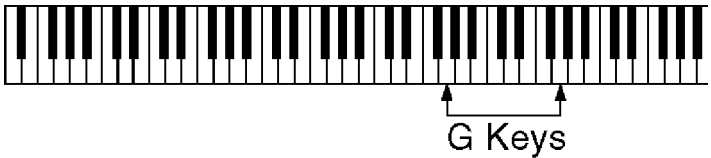
[Fig. 11]



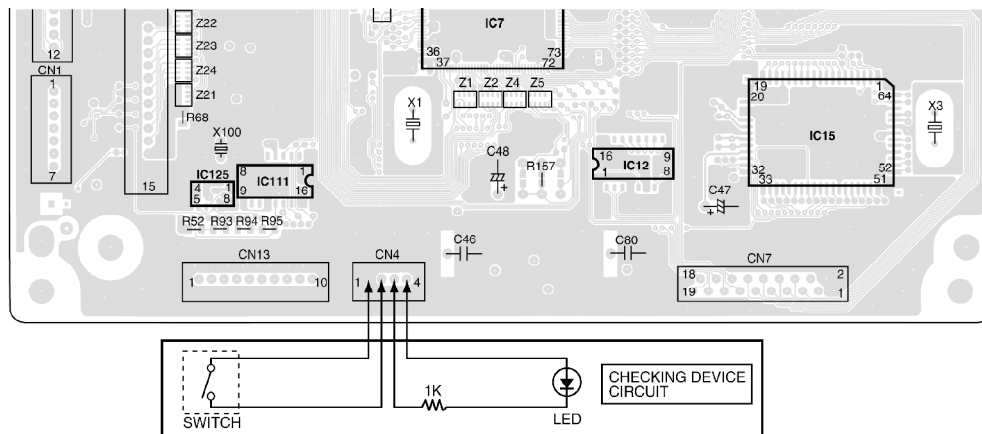
12. About the Self-Diagnostic Function

This model has some self-diagnostic capabilities. When set to the self-diagnostic mode, operation of various components can be verified by following the procedures in the chart below.

No.	PCB	TEST MODE	Procedure	
3	MAIN	Wave ROM check MAIN: IC12,18	1. Press and hold the two E keys shown below, and then the power switch. 2. Reduce the MAIN VOLUME level low enough. 3. Confirm the movement each SOUND buttons (refer to 1 shownbelow.).	
		<LCD display> SINE WAVE CHECK	 E Keys	
		Buttons	LCD display	Movement
		GRAND	FULL w/o TOUCH	Full-oscillating pronunciation without touch (all keys)
		UPRIGHT	OUTSEL CHECK	Confirmation of output root: C key is left, another keys are right
		ELECTRIC	+2 OCT. w/o TCH	Full-oscillating pronunciation without touch in +2 octave
		MODERN	-2 OCT. w/o TCH	Full-oscillating pronunciation without touch in -2 octave
		GM/OTHERS	NORMAL w/TOUCH	Pronunciation with touch (all keys)
		HARPSI	-16db w/o TOUCH	Full-oscillating pronunciation without touch in -16db
		■ Specify for WAVE ROM. WAVE ROME is corresponding to order for least bank from C key. If no sounds in epuivalence key and sound is distorting, its WAVE ROM		
BANK	WAVE ROM	check key note		
BANK0	IC104, 105	C,C#		
BANK1	IC2, 5	D~B		
4	CPL / CPR	Control Panel buttons LED lighting check	Press and hold the two F keys shown below, and then tu power switch.	
		<LCD display> CP SW & LED CHECK	 F Keys	
Press the buttons on the control panel and confirm that the corresponding LEDs ligl DEMO button, all LEDs light.)				

No.	PCB	TEST MODE	Procedure
5		Control Panel LED display check <LCD display> LCD MODULE CHECK	Press and hold the two G keys shown below, and then turn power switch.  G Keys The numbers are displayed automatically and repeatedly on the display.

■ Connection between serving CHECKING DEVICE and MAIN P.C.B.



13. Precautions before Servicing

13.1. Precautions for measuring of the output waveforms

1. The waveform was measured with a “National Digital Storage Oscilloscope VP-5730A”. Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.
2. Since the 1/10 test probe is used, the indicated voltage value on the bottom part of each waveform illustration is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).
3. To measure the waveforms, first set this unit to the service diagnostic mode (refer to “WAVE ROM test”). The WAVE ROM output will then be output as a sine wave to facilitate the servicing check.

13.2. Important safety notice

- Components identified by a ⚠ mark have special characteristics important for safety.

- When replacing any of these components, use only manufacture's specified parts.

13.3. Symbolic Marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following [Table-1](#) and [Table-2](#) .

13.3.1. RESISTORS

- Resistors without symbolic mark are FIXED CARBON FILM RESISTORS (ERD-type).
- All resistors are 1/4 WATT, $\pm 5\%$ TOLERANCE unless otherwise designated in schematic diagrams.

Table-1

SYMBOL	SPECIFICATION
	Fixed Carbon Film Resistors "FLAME-PROOF" (ERD—F—type)
	Fixed Wire Wound Resistors "FLAME-PROOF" (ERF—type)
	Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERG—type)
	Fixed Metal Film Resistors "FLAME-PROOF" (ERX—type)
	Fixed Metal Film Resistors (Precision and High Stability) (ERO—type)
	Fuse Type Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERQ—type)
	Fuse Type Fixed Carbon Film Resistors "FLAME-PROOF" (ERD2FC—type)

13.3.2. CAPACITORS

- Capacitors without symbolic mark are POLYESTER CAPACITORS. (ECQM-type, ECQG-type, $\pm 10\%$ Tolerance)
- Polarized capacitors without symbolic mark are Aluminum Electrolytic Capapcitors. (ECEA-type, $\pm 20\%$ Tolerance)

Table-2

SYMBOL	SPECIFICATION	TYPE
	Non-Polarized Electrolytic Capacitors	ECEA_KN_type
	Non-Polarized Electrolytic (for Network system)	ECEA_Y_type
	Tantalum Solid Electrolytic Capacitors	ECS_type
	Metalized Plastic Film Capacitors (TF Series)	ECQV_type
	Temperature Compensating Ceramic Capacitors	ECC_type
	High-Dielectric Constant Ceramic Capacitors	ECK_type ECR_type
	Axial Lead Ceramic Capacitors	ECB_type
	Metalized Polyester Film Capacitors for Across the Line	ECQ_EW_type
	Aluminum Electrolytic Capacitors for Smoothing Circuit	ECES_type
	Multilayer Ceramic Chip Capacitors	ECUV_type

14. Measuring Condition

Note

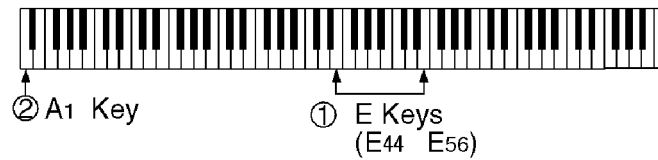
When measuring the waveforms, set this piano's state as Fig.2 in "10. Disassembly Instructions".

14.1. Measuring Condition of MAIN P.C.B.

Check point ② - ⑤

Set to the self-diagnostic mode followings.

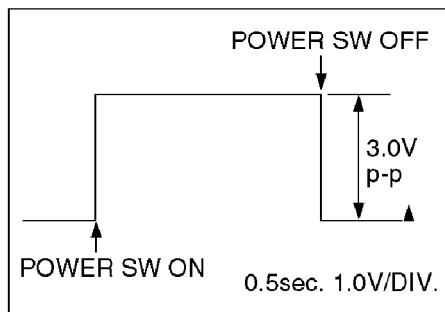
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND CONCERT GRAND
- Main Volume MAX
- Keyboard A₁ (②)



Check point ①

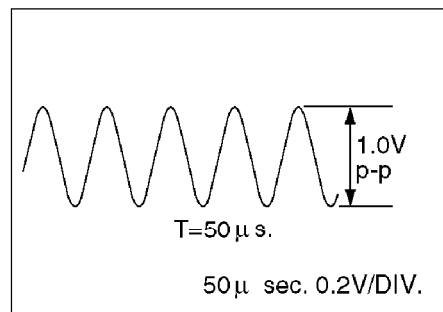
Set the initial setting mode (refer to "5, Initial Setting").

① RESET

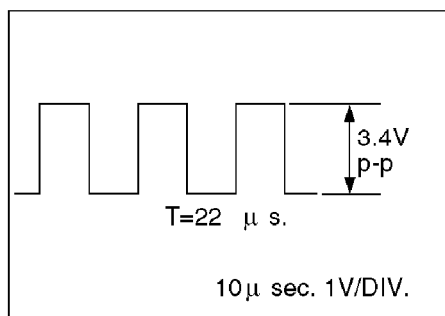


- Power SW ON → OFF

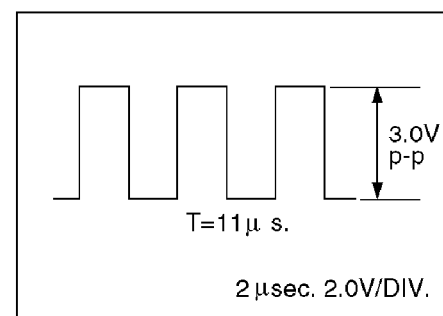
② TG CLOCK



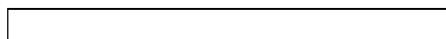
③

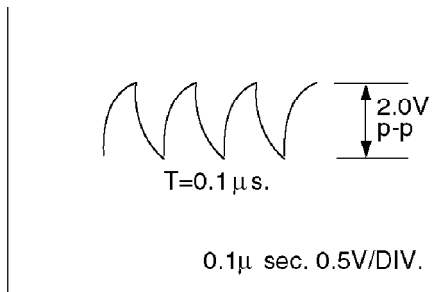


④



⑤





14.2. Measuring Condition of FJASP P.C.B.

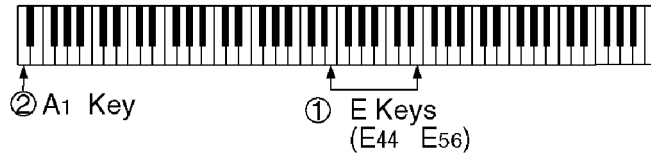
Note

When measuring the waveforms, set this piano's state as Fig.2 in "10. Disassembly Instructions".

Check point ③ - ③

Set the self-diagnostic mode followings.

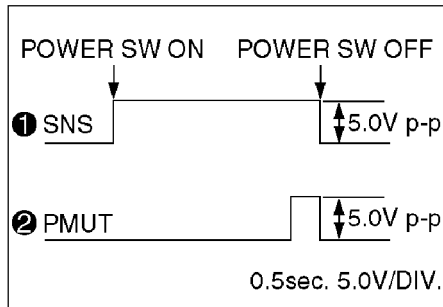
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND CONCERT GRAND
- Main Volume MAX
- Keyboard A1 (②)



Check point ①, ②

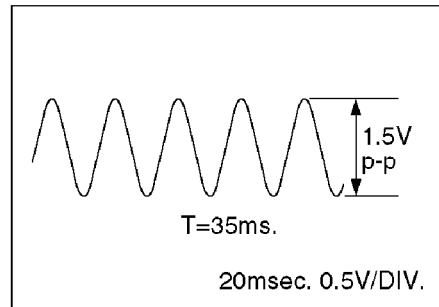
Set the initial setting mode (refer to "5, Initial Setting").

① SNS, ② PMUT

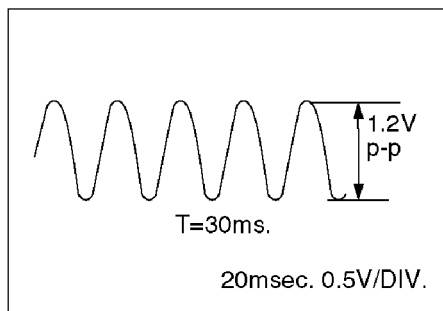


• Power SW..... ON → OFF

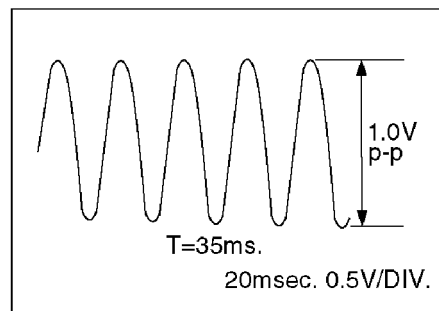
③ SUML, ④ SUMR



⑤ HPL, ⑥ HPR



⑦ SPL, ⑧ SPR



15. Schematic Diagram

16. Printed Circuit Board Diagram

17. Block Diagram

18. Wiring Connection Diagram

19. Replacement Parts List

Notes:

*Important safety notice: / Components identified by  mark have special characteristics important for safety. / Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. / When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list. / * Warning: This product uses a laser diode. Refer to caution statements.

*ACHTUNG: Die Lasereinheit nicht zerlegen. Die Lasereinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.

*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F) / *Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000K (OHM)

*The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

*"1-6" in Remarks indicate the areas.

[*1: except (P) area, *2: except (P, PC) areas, *3: (EX, EG, EQ, EB, GN) areas, *4: (GU, GM, GH, GT) areas, *5: (GU, GM, GT, EX, EG, EQ) areas, *6: (EX, GN, GU, GM, GH, GT) areas.]

*[SPC] in Remarks columns parts that are supplied by S.P.C..

*Since SW consists of buttons and P.C.B.s, we do not supply it as an individual part (refer to "21. Manual Keyboard Parts Location").

*"<IA>"-"<ID>", marks in Remarks indicate languages of instruction manuals. [<IA>: American English, <IB>: English, <IC>: French/ Netherlands, <ID>: German]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>1</u>	QMRG5155AAK	CUSHION	4	<SPC>
<u>2</u>	SJS9334A	AC INLET COVER	1	<SPC>(P,PC)
2	K2AA2G000003	AC INLET COVER	1	<SPC>*2
<u>3</u>	XNS12	NUT	1	<SPC>
4	XTN4+16F	SCREW	1	<SPC>
5	XTV3+10C	SCREW	12	<SPC>
6	GTT4+25AFZ	SCREW	4	<SPC>
7	QHDG021AA	SCREW	10	<SPC>
8	QHDG055AA	SCREW	12	<SPC>
<u>9</u>	QHWG007AA	NUT	2	<SPC>
<u>10</u>	QKQGA149BAZ	TOP COVER ASS'Y	1	<SPC>(K)
10	QKQGA149BBZ	TOP COVER ASS'Y	1	<SPC>(M)
<u>10-1</u>	QMFG1274AA	FELT	3	<SPC>
<u>10-2</u>	SGBG160B	TECHNICS BADGE	1	<SPC>
<u>11</u>	QKQGF037DCZ	KEYBOARD COVER ASS'Y	1	<SPC>(K)
11	QKQGF037DDZ	KEYBOARD COVER ASS'Y	1	<SPC>(M)
<u>11-1</u>	QMRG7098AA	HOLDER	2	<SPC>
<u>11-2</u>	QWBG002AA	HOLDER	1	<SPC>
<u>11-3</u>	QXQG007AA	AXLETREE	1	<SPC>
<u>11-4</u>	QGGG0154AA	REAR ORNAMENT	1	<SPC>(K)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
11-4	QGKG0154AB	REAR ORNAMENT	1	<SPC>(M)
11-5	QMRG7031EC	PROTECTOR(L)	1	<SPC>
11-6	QMRG7032EC	PROTECTOR(R)	1	<SPC>
11-7	QMFG1277AA	FELT	2	<SPC>
11-8	QGKG0095AD	ORNAMENT	1	<SPC>
11-9	XTB4+12A	SCREW	4	<SPC>
11-10	XTB4+6B	SCREW	1	<SPC>
11-11	XTT4+10A	SCREW	14	<SPC>
12	QLZG017A	CORE	5	<SPC>
14	QMRG5206AA	CUSHION	2	<SPC>
15	QMRG7086AA	LID,GUIDE	2	<SPC>
16	QYAG1050AAZ	MUSIC STAND ASS'Y	1	<SPC>(K)
16	QYAG1050ABZ	MUSIC STAND ASS'Y	1	<SPC>(M)
16-1	SBLG7-2	STAY	1	<SPC>
16-2	QMFG1083AB	FELT	1	<SPC>
16-3	SBHG5003-2	HINGE	2	<SPC>
16-4	XTB3+10AFZ	SCREW	3	<SPC>
16-5	XTS3+10AFZ	SCREW	4	<SPC>
17	QYKG289AAZ	CABINET ASS'Y	1	<SPC>(K)(P)
17	QYKG289ABZ	CABINET ASS'Y	1	<SPC>(K)*1
17	QYKG289ACZ	CABINET ASS'Y	1	<SPC>(M)(P)
17	QYKG289ADZ	CABINET ASS'Y	1	<SPC>(M)*1
18	XTS3+12AFZ	SCREW	6	<SPC>
19	XTT4+12AFZ	SCREW	2	<SPC>
20	XTT4+20A	SCREW	8	<SPC>
21	QHDG067AB	SCREW	4	<SPC>
22	XTV3+10JFZ	SCREW	1	<SPC>
23	XYA35+JA12	SCREW	18	<SPC>
24	XYN4+F16	SCREW	4	<SPC>
25	QAUG028AA	FLOPPY DISC DRIVE ASS'Y	1	<SPC>
26	XYN3+C8FZ	SCREW	1	<SPC>
27	QMRG5203AA	URETHAN	1	<SPC>
28	XTW3+20TFZ	SCREW	8	<SPC>
29	XTB35+12A	SCREW	2	<SPC>
30	XTT4+14A	SCREW	4	<SPC>
31	QKWG034AA	LCD WINDOW	1	<SPC>
32	QGPG0134AA	BUTTON(L)	1	<SPC>
33	QGPG0135AA	BUTTON(R)	1	<SPC>
34	QGPG0137CA	CONTROL PANEL	1	<SPC>
35	QMCG004AA	SPACER	9	<SPC>
36	QMFG1283AA	FELT	1	<SPC>
37	QMRG5231AA	FELT	1	<SPC>
38	QMRG5232AA	FELT	1	<SPC>
39	SBNG7050A	KNOB	2	<SPC>
40	XTW3+10Q	SCREW	19	<SPC>
41	XTWSG2	SCREW	8	<SPC>
42	QGKG0172AA	TWEETER ORNAMENT	2	<SPC>
43	QMFG4234AA	FELT	1	<SPC>
44	QAQG032BAK	SOUND LOOPHOLE BOARD	1	<SPC>
45	QKQGB565AAZ	LEFT PLANK ASS'Y	1	<SPC>(K)
45	QKQGB565ABZ	LEFT PLANK ASS'Y	1	<SPC>(M)
45-1	XTT4+25A	SCREW	3	<SPC>
46	QKQGB566AAZ	RIGHT PLANK ASS'Y	1	<SPC>(K)
46	QKQGB566ABZ	RIGHT PLANK ASS'Y	1	<SPC>(M)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
46-1	XTT4+25A	SCREW	3	<SPC>
47	QKQGD136AAZ	CROSSBOARD	1	<SPC>(K)
47	QKQGD136ACZ	CROSSBOARD	1	<SPC>(M)
48	QHDG016AB	SCREW	4	<SPC>
49	QMWG4007AA	PEDAL ARM	3	<SPC>
50	QKQGM118AAZ	PEDAL BOX ASS'Y	1	<SPC>(K)
50	QKQGM118ABZ	PEDAL BOX ASS'Y	1	<SPC>(M)
50-1	QGKG0113AA	ORNAMENT	3	<SPC>
51	XYN4+F16FZ	SCREW	2	<SPC>
52	QHDG032AB	SCREW	4	<SPC>
53	SHRG9620A	CRAMPER	3	<SPC>
54	SHRG1230A	CRAMPER	1	<SPC>
55	XTB35+14A	SCREW	1	<SPC>
56	QMBG009AA	SPRING	3	<SPC>
57	QMFG1133AA	FELT	3	<SPC>
58	QKAG0011AA	FOOT	1	<SPC>
59	QMFG1134AA	FELT	3	<SPC>
60	QMFG1135AA	FELT	3	<SPC>
61	XTV3+10G	SCREW	5	<SPC>
62	XYN6+F16FZ	SCREW	2	<SPC>
63	QMFG1220AA	FELT	1	<SPC>
64	XYN3+F6	SCREW	1	<SPC>
65	XTW3+8J	SCREW	1	<SPC>
66	QHDG043AA	SCREW	4	<SPC>
67	QMFG4103AA	FELT	1	<SPC>
68	QMGG029AA	FLOATING RUBBER	4	<SPC>
101	XTW3+10T	SCREW	14	<SPC>
102	QMC011CA	SPRING	1	<SPC>
103	QMFG1265AA	FELT	2	<SPC>
104	QMFG1266BA	FELT	4	<SPC>
105	QMFG1267BA	FELT	2	<SPC>
106	QMFG1268BA	FELT	2	<SPC>
107	QMGG060BA	RUBBER CAP(HAMMER)	88	<SPC>
108	QMWG1041AA	WHITE KEY(FIRST OCTAVE A)	1	<SPC>
109	QMWG1042AA	WHITE KEY(B KEY)	8	<SPC>
110	QMWG1043AA	WHITE KEY(C KEY)	7	<SPC>
111	QMWG1044AA	WHITE KEY(D KEY)	7	<SPC>
112	QMWG1045AA	WHITE KEY(E KEY)	7	<SPC>
113	QMWG1046AA	WHITE KEY(F KEY)	7	<SPC>
114	QMWG1047AA	WHITE KEY(G KEY)	7	<SPC>
115	QMWG1048AA	WHITE KEY(A KEY)	7	<SPC>
116	QMWG1049AA	WHITE KEY(TOP OCTAVE C)	1	<SPC>
117	QMWG2006AA	BLACK KEY	36	<SPC>
118	QMWG6020AA	RUBBER SWITCH(12 PCS.)	7	<SPC>
119	QMWG6021AA	RUBBER SWITCH(4 PCS.)	1	<SPC>
120	QMWG8040AA	FULCURUM(12 PCS,ON ONE)	7	<SPC>
121	QMWG8045AA	KEY GUIDE	88	<SPC>
122	QMWG8038AA	HAMMER SUPPORT(WHITE KEY)	52	<SPC>
123	QMWG9025AA	HAMMER(WHITE KEY)	12	<SPC>
124	QMWG9025AB	HAMMER(WHITE KEY)	19	<SPC>
125	QMWG9025AC	HAMMER(WHITE KEY)	11	<SPC>
126	QMWG9025AD	HAMMER(WHITE KEY)	10	<SPC>
127	QMWG8039BA	HAMMER SUPPORT(BLACK KEY)	36	<SPC>
128	QMWG9027AA	HAMMER(BLACK KEY)	8	<SPC>

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
129	QMWG9027AB	HAMMER(BLACK KEY)	14	<SPC>
130	QMWG9027AC	HAMMER(BLACK KEY)	7	<SPC>
131	QMWG9027AD	HAMMER(BLACK KEY)	1	<SPC>
132	QGPG0139BB	END COVER PANEL,LEFT	1	<SPC>
133	QMFG1104AA	FELT	2	<SPC>
134	XTV3+12G	SCREW	4	<SPC>
135	XTV3+20JFZ	SCREW	2	<SPC>
136	QGPG0138BB	END COVER PANEL,RIGHT	1	<SPC>
137	QMWG8041AA	FULCURUM(4 PCS.ON ONE)	1	<SPC>
138	QGUG1040AA	BUTTON,POWER	1	<SPC>
A1	RJA0065-A	AC CORD	1	K2CB2CB00006 <SPC>(P,PC) ⚠
A1	SJAG65	AC CORD	1	K2CR2ED00001 <SPC>*5 ⚠
A1	VJA0733	AC CORD	1	K2CT3DA00001 <SPC>(EB,GH) ⚠
A1	RJA0035-1X	AC CORD	1	<SPC>(GN) ⚠
A2	QQFGPX665AB	FAN BAG	1	<SPC>(P)<IA>
A2	QQFGPX665BB	FAN BAG	1	<SPC>(PC)<IB><IC>
A2	QQFGPX665CB	FAN BAG	1	<SPC>*6<IB>
A2	QQFGPX665DB	FAN BAG	1	<SPC>(EG)<IB><IC><ID>
A2	QQFGPX665EB	FAN BAG	1	<SPC>(EQ)<ID>
A2	QQFGPX665GB	FAN BAG	1	<SPC>(EB)<IB>
A4	SJP5213-2	PLUG ADAPTOR	1	K2DR42E00003 <SPC>(GU,GT)
C1,2	ECEA0JKS101	6.3V 100U	2	<SPC>CPL
C1	ECKCVA1472MF	4700P	1	F1B2H4720008 <SPC>FJASP ⚠
C1	ECKF1E473ZV	25V 0.047U	1	<SPC>HP
C1	ECRR1H104ZF	50V 0.1U	1	<SPC>PKB
C1	ECRR1H104ZF1	50V 0.1U	1	F1E1H1040023 <SPC>MKB1
C1	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C2	ECKF1E473ZV	25V 0.047U	1	<SPC>HP
C2	ECQU2A104MN	0.1U	1	<SPC>FJASP ⚠
C2	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C3	ECRR1H104ZF	50V 0.1U	1	<SPC>HP
C3	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C4	ECA1VM332	35V 3300U	1	<SPC>FJASP
C4	ECBA1E223ZF5	25V 0.022U	1	ECBT1E223ZF5 <SPC>CPL
C4	ECEA0JKA470E	6.3V 47U	1	<SPC>MKB1
C4	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C5	ECKR1E473ZV5	25V 47P	1	<SPC>HPM
C5	ECRR1H104ZF1	50V 0.1U	1	F1E1H1040023 <SPC>MKB2
C5	ECUV1H103KBG	50V 0.01U	1	<SPC>MAIN
C5	QCBG1H104ZFA	50V 0.1U	4	F1E1H104A001 <SPC>CPL
C6	ECA1VM332	35V 3300U	1	<SPC>FJASP
C6	ECRR1H104ZF1	50V 0.1U	1	F1E1H1040023 <SPC>MKB1
C6	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C7	ECRR1H104ZF1	50V 0.1U	1	F1E1H1040023 <SPC>MKB2
C7	ECUV1H332KBN	50V 3300P	1	<SPC>MAIN
C7	QCBG1H104ZFA	50V 0.1U	1	F1E1H104A001 <SPC>CPL
C8	ECRR1H104ZF	50V 0.1P	1	<SPC>FJASP

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C8	QCBG1H104ZFA	50V 0.1U	1	F1E1H104A001 <SPC>CPR
C9	ECRR1H104ZF	50V 0.1P	1	<SPC>FJASP
C9	ECUV1C224KBX	16V 0.22U	1	<SPC>MAIN
C10	ECEA1CKA100	16V 10U	1	<SPC>FJASP
C10	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C11	ECA1CM101	16V 100P	1	ECA1CM331 <SPC>FJASP
C11	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C12	ECEA1HKN010	50V 1U	1	<SPC>FJASP
C12	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C13	ECCR1H221J5	50V 220P	1	<SPC>FJASP
C13	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C14	ECEA1HKN010	50V 1U	1	<SPC>FJASP
C14	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C15	ECCR1H221J5	50V 220P	1	<SPC>FJASP
C15	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C16	ECQB1H332JF3	50V 0.0033U	1	<SPC>FJASP
C16	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C17	ECQB1H474JF3	50V 0.47U	1	<SPC>FJASP
C17	ECUV1H100DCN	50V 10P	1	<SPC>MAIN
C18	ECEA1CKA100	16V 10U	1	<SPC>MAIN
C18	ECQG1H332KZ	50V 0.0033U	1	F0A1H332A026 <SPC>FJASP
C18	ECQG1H682KZ	50V 0.0068U	1	F0A1H682A026 <SPC>FJASP
C19	ECEA1HKN010	50V 1U	1	<SPC>FJASP
C20	ECQB1H473JF3	50V 0.047U	1	<SPC>FJASP
C20	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C21	ECQB1H683JF3	50V 0.068U	1	<SPC>FJASP
C21	ECUV1H103KBG	50V 0.01U	1	<SPC>MAIN
C22	ECQG1H472KZ	50V 0.0047U	1	F0A1H472A026 <SPC>FJASP
C22	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C23	ECQV1H154JM	50V 0.15U	1	<SPC>FJASP
C23,24	ECUV1H104ZFX	50V 0.1U	2	<SPC>MAIN
C24	F0A1H153A025	50V 0.015U	1	<SPC>FJASP
C25	ECQG1H683KZT	50V 0.068U	1	F0A1H683A025 <SPC>FJASP
C25	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C26,27	ECQG1H332KZ	50V 0.0033U	2	F0A1H332A026 <SPC>FJASP
C27	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C28	ECQG1H222KZ	50V 0.0022U	1	F0A1H222A026 <SPC>FJASP
C28	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C29	ECQB1H332JF3	50V 0.0033	1	<SPC>FJASP
C29	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C30	ECEA1HKN010	50V 1U	1	<SPC>FJASP
C30	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C31	ECQB1H473JF3	50V 0.047U	1	<SPC>FJASP
C31	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C32	ECQB1H474JF3	50V 0.47U	1	<SPC>FJASP
C32	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C33	ECQG1H332KZ	50V 0.0033U	1	F0A1H332A026 <SPC>FJASP
C34	ECQV1H154JM	50V 0.15U	1	<SPC>FJASP
C35	F0A1H153A025	50V 0.015U	1	<SPC>FJASP
C36	ECQB1H683JF3	50V 0.068U	1	<SPC>FJASP
C36	ECUV1H223KBX	50V 0.022U	1	<SPC>MAIN
C37	ECQG1H472KZ	50V 0.0047U	1	F0A1H472A026 <SPC>FJASP
C37	ECUV1H182JX	50V 1800P	1	<SPC>MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C38	ECQG1H683KZT	50V 0.068U	1	F0A1H683A025 <SPC>FJASP
C38	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C39,40	ECQG1H332KZ	50V 0.0033U	2	F0A1H332A026 <SPC>FJASP
C40	ECUV1H472KBG	50V 4700P	1	<SPC>MAIN
C41	ECQG1H222KZ	50V 0.0022U	1	F0A1H222A026 <SPC>FJASP
C41	ECUV1H333KBX	50V 0.033U	1	<SPC>MAIN
C42	ECCR1H100D5	50V 10P	1	<SPC>FJASP
C42	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C43	ECCR1H100D5	50V 10P	1	<SPC>FJASP
C43	ECUV1H100DCN	50V 10P	1	<SPC>MAIN
C44	ECQV1H224JM	50V 0.22U	1	<SPC>FJASP
C44	ECUV1H100DCN	50V 10P	1	<SPC>MAIN
C45	ECQB1H223JF	50V 0.022U	1	<SPC>FJASP
C46	ECQV1H104JM	50V 0.1U	1	<SPC>FJASP
C46	EECS5R5V105	5.5V 1U	1	<SPC>MAIN
C47	ECA0JM221B	6.3V 220U	1	<SPC>MAIN
C47	ECEA50Y1R5K	50V 1.5U	1	<SPC>FJASP
C48	ECEA1CKA100	16V 10U	1	<SPC>MAIN
C49	ECQV1H224JM	50V 0.22U	1	<SPC>FJASP
C50	ECA1JM220	63V 22U	1	<SPC>MAIN
C50	ECQB1H223JF	50V 0.022U	1	<SPC>FJASP
C51	ECQV1H104JM	50V 0.1U	1	<SPC>FJASP
C52	ECEA1CKN100B	16V 10U	1	<SPC>MAIN
C52	ECEA50Y1R5K	50V 1.5U	1	<SPC>FJASP
C54	ECBT1C222MR5	16V 2200P	1	F1D1C222A002 <SPC>FJASP
C54	ECEA1CKA100	16V 10U	1	<SPC>MAIN
C55	ECBT1C222MR5	16V 2200P	1	F1D1C222A002 <SPC>FJASP
C55	ECUV1H222KX	50V 2200P	1	<SPC>MAIN
C56	ECRR1H104ZF	50V 0.1P	1	<SPC>FJASP
C56	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C57	ECRR1H104ZF	50V 0.1P	1	<SPC>FJASP
C57	ECUV1H682KBG	50V 6800P	1	<SPC>MAIN
C58	ECBT1C222MR5	16V 2200P	1	F1D1C222A002 <SPC>FJASP
C58	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C59	ECBT1C222MR5	16V 2200P	1	F1D1C222A002 <SPC>FJASP
C60	ECRR1H104ZF	50V 0.1P	1	<SPC>FJASP
C60	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C63	ECA0JM102	6.3V 1000U	1	<SPC>MAIN
C64	ECRR1H104ZF	50V 0.1P	1	<SPC>MAIN
C65	ECCR1H221J5	50V 220P	1	<SPC>FJASP
C66	ECKR1E473ZV	25V 0.047U	1	<SPC>FJASP
C68	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C70-72	ECUV1H104ZFX	50V 0.1U	3	<SPC>MAIN
C73	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C73	QCBG1H104ZFA	50V 0.1U	1	F1E1H104A001 <SPC>FJASP
C74	ECUV1H333KBX	50V 0.033U	1	<SPC>MAIN
C75,76	ECUV1H104ZFX	50V 0.1U	2	<SPC>MAIN
C77	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C78	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C79	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C80	EECS5R5V105	5.5V 1U	1	<SPC>MAIN
C86	ECEA0JKA101	6.3V 100U	1	<SPC>MAIN
C93	ECUV1H100DCN	50V 10P	1	<SPC>MAIN
C96	ECUV1H221JG	50V 220P	1	<SPC>MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C97	ECUV1H331JG	50V 330P	1	<SPC>MAIN
C100-04	ECUV1H101JG	50V 100P	5	<SPC>MAIN
C106	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C107	ECUV1H030CCN	50V 3P	1	<SPC>MAIN
C108-12	ECUV1H104ZFX	50V 0.1U	5	<SPC>MAIN
C113	ECEA0JKA470	6.3V 47U	1	<SPC>MAIN
C114-22	ECUV1H104ZFX	50V 0.1U	9	<SPC>MAIN
C127	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C130,31	ECUV1H100DCN	50V 10P	2	<SPC>MAIN
C132	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C135	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C140	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C142	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C144	ECRR1H104ZF	50V 0.1P	1	<SPC>MAIN
C145	ECA1CM101	16V 100U	1	<SPC>MAIN
C149	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C150	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C151	ECEA0JKA101	6.3V 100U	1	<SPC>MAIN
C152	ECEA1CKA100	16V 10U	1	<SPC>MAIN
C153-55	ECUV1H104ZFX	50V 0.1U	3	<SPC>MAIN
C156	ECUV1H101JG	50V 100P	1	<SPC>MAIN
C157	ECUV1H104ZFX	50V 0.1U	1	<SPC>MAIN
C162,63	ECUV1H681JG	50V 680P	2	<SPC>MAIN
C164,65	ECEA1CKN100B	16V 10U	2	<SPC>MAIN
C166	ECEA1CKA100	16V 10U	1	<SPC>MAIN
CN1	QJTG016050AA	CONNECTOR(5P)	1	<SPC>PKB
CN1	SJPG1JS070A	CONNECTOR(7P)	1	<SPC>MAIN
CN1	SJPG1JS100A	CONNECTOR(10P)	1	<SPC>COM
CN1	SJPG2JS050A	CONNECTOR(5P)	1	<SPC>CPL
CN1	SJPG2JS060A	CONNECTOR(6P)	1	<SPC>HP
CN1	SJPG7JS020A	CONNECTOR(2P)	1	<SPC>FJASP
CN2	QJUG00703AA	CONNECTOR(3P)	1	<SPC>HP
CN2	SJPG1JS050AG	CONNECTOR(5P)	1	<SPC>MAIN
CN2	SJPG2JS060A	CONNECTOR(6P)	1	<SPC>CPL
CN2	SJPG7JS040A	CONNECTOR(4P)	1	<SPC>FJASP
CN3	SJPG1JS160A	CONNECTOR(16P)	1	<SPC>MKB1
CN3	SJPG2JS100A	CONNECTOR(10P)	1	<SPC>CPL
CN3	SJPG7JS030A	CONNECTOR(3P)	1	<SPC>FJASP
CN4	QJTG01812AA	CONNECTOR(12P)	1	<SPC>MKB2
CN4	SJPG1JS040A	CONNECTOR(4P)	1	<SPC>MAIN
CN4	SJPG1JS060A	CONNECTOR(6P)	1	<SPC>FJASP
CN4	SJPG2JS080A	CONNECTOR(8P)	1	<SPC>CPL
CN5	QJTG01012AA	CONNECTOR(12P)	1	<SPC>FJASP
CN5	SJPG1JS150A	CONNECTOR(15P)	1	<SPC>MAIN
CN5	SJPG2JS100A	CONNECTOR(10P)	1	<SPC>CPR
CN6	SJPG1JS070A	CONNECTOR(7P)	1	<SPC>FJASP
CN6	SJPG1JS160A	CONNECTOR(16P)	1	<SPC>MAIN
CN6	SJPG2JS080A	CONNECTOR(8P)	1	<SPC>CPR
CN7	QEUGQ8H08BCZ	CONNECTOR(8P)	1	<SPC>MKB2
CN7	QJUG05219AA	CONNECTOR(19P)	1	<SPC>MAIN
CN7	SJPG1310A	CONNECTOR(4P)	1	<SPC>FJASP
CN8	QJUG00212AA	CONNECTOR(12P)	1	<SPC>MKB1
CN8	SJPG1340A	CONNECTOR(4P)	1	<SPC>FJASP

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
CN9	QJUG01408AA	CONNECTOR(8P)	1	<SPC>MKB1
CN10	SJPG1JS160AA	CONNECTOR(16P)	1	<SPC>MAIN
CN12	SJPG1JS120A	CONNECTOR(12P)	1	<SPC>MAIN
CN13	SJPG1JS100A	CONNECTOR(10P)	1	<SPC>MAIN
CN15	SJPG1JS060A	CONNECTOR(6P)	1	<SPC>MAIN
D1	ERA1502V5	DIODE	1	B0EAKM000061 <SPC>FJASP 
D1	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D1-27	MA165TA5	DIODE	27	MA2C16500E <SPC>CPR
D1	SEL4214RLC05	LED	1	<SPC>HP
D1-88	MA165TA5	DIODE	88	MA2C16500E <SPC>MKB1
D2	ERA1502V5	DIODE	1	B0EAKM000061 <SPC>FJASP 
D2	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D3	MA8030L	DIODE	1	MAZ80300LL <SPC>MAIN
D3	SVDS3V40	DIODE	1	B0EAKM000066 <SPC>FJASP 
D4	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D4	SVDS3V40	DIODE	1	B0EAKM000066 <SPC>FJASP 
D5	MA151WKTX	DIODE	1	MA3X151E0L <SPC>MAIN
D5	SVDS3V40	DIODE	1	B0EAKM000066 <SPC>FJASP 
D6	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D6,D7	SVDS3V40	DIODE	2	B0EAKM000066 <SPC>FJASP 
D8	MA8082M	DIODE	1	MAZ80820M <SPC>MAIN
D8	SVDS3V40	DIODE	1	B0EAKM000066 <SPC>FJASP 
D9	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D9	SVDS3V40	DIODE	1	B0EAKM000066 <SPC>FJASP 
D10	MA8051L	DIODE	1	<SPC>MAIN
D10	SVDS3V40	DIODE	1	B0EAKM000066 <SPC>FJASP 
D11	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D11	MA4180TA	DIODE	1	MAZ418000F <SPC>FJASP
D12	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN
D12	MA4180TA	DIODE	1	MAZ418000F <SPC>FJASP
D13,14	EK04W	DIODE	2	B0JAME000042 <SPC>FJASP
D14	MA151WKTX	DIODE	1	MA3X151E0L <SPC>MAIN
D18,19	MA738TX	DIODE	2	MA2Q73800L <SPC>MAIN
D20	MA2062LF	DIODE	1	MAZ2062000LF <SPC>MAIN 
D30-32	MA165TA5	DIODE	3	MA2C16500E <SPC>FJASP
D33	EK04W	DIODE	1	B0JAME000042 <SPC>FJASP
D51-69	MA165TA5	DIODE	19	MA2C16500E <SPC>CPL
D89-176	MA165TA5	DIODE	88	MA2C16500E <SPC>MKB2
D100	MA8056	DIODE	1	MAZ8056 <SPC>MAIN
D101-115	LN282RPXVTX2	LED	15	LNJ282RKRX01 <SPC>CPR
D101	MA110TX	DIODE	1	MA2Z11000L <SPC>MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D102	MA151WKTX	DIODE	1	MA3X151E0L <SPC>MAIN
D103,04	MA110TX	DIODE	2	MA2Z11000L <SPC>MAIN
D105	MA151WKTX	DIODE	1	MA3X151E0L <SPC>MAIN
D106,07	MA110TX	DIODE	2	MA2Z11000L <SPC>MAIN
D116	LN382GPXVTX2	LED	1	LNJ382GKGX01 <SPC>CPR
D117	LN282RPXVTX2	LED	1	LNJ282RKRX01 <SPC>CPR
D118	LN382GPXVTX2	LED	1	LNJ382GKGX01 <SPC>CPR
D119-32	LN282RPXVTX2	LED	15	LNJ282RKRX01 <SPC>CPL
F1	K5D632AD0006	FUSE,6.3A	1	<SPC>(P,PC) ⚠
F1	XBA2C31TB0L	FUSE,T3,15A	1	<SPC>*4 ⚠
F2,F3	XBA2C20TB0L	FUSE,T2A	2	K5Y202B00002 <SPC>*2 ⚠
F4,5	XBA1C25NB100	FUSE,T25A	2	<SPC>(P,PC) ⚠
F4,5	XBA2C20TB0L	FUSE,T2A	2	K5Y202B00002 <SPC>*2 ⚠
IC1	HD74LS138P	IC	1	C0JACN000001 <SPC>MKB1
IC1	KIA7815PI	IC	1	C0CAALG00016 <SPC>FJASP ⚠
IC1	M37471M2196S	IC	1	C2BBDB000023 <SPC>CPL
IC1	MN1382KTX	IC	1	MN1382KP <SPC>MAIN
IC2	HD74LS07P	IC	1	C0JACB000006 <SPC>CPL
IC2	HD74LS138P	IC	1	C0JACN000001 <SPC>MKB2
IC2	KIA7915PI	IC	1	C0CABLG00006 <SPC>FJASP ⚠
IC2	QSIGX3C16006	IC	1	<SPC>MAIN
IC3	HD74LS07P	IC	1	C0JACB000006 <SPC>CPL
IC3	HD74LS138P	IC	1	C0JACN000001 <SPC>MKB2
IC3	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC3	TC7W14FTE12L	IC	1	C0JBAA000524 <SPC>MAIN
IC4,C5	M5218AL	IC	2	C0AABB000054 <SPC>FJASP
IC5	QSIGX3C16005	IC	1	<SPC>MAIN
IC6	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC6	QSIGDX336AX0	IC	1	<SPC>MAIN
IC7	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC7	TMP94C251F	IC	1	<SPC>MAIN
IC8	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC8	TC7W08FTE12L	IC	1	C0JBAA000103 <SPC>MAIN
IC9	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC9	M5M44265CJ6S	IC	1	C3ABKG000098 <SPC>MAIN
IC10	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC10	TC7S08FTE85L	IC	1	C0JBAA000096 <SPC>MAIN
IC11	M5218AL	IC	1	C0AABB000054 <SPC>FJASP
IC12	QCPL-260L	IC	1	<SPC>FJASP
IC12	TC74HC138AF	IC	1	C0JBAC000099 <SPC>MAIN
IC13	M5256DFP70LL	IC	1	C3BBJC000001 <SPC>MAIN
IC15	D72070GF3BE	IC	1	C1DB00000430 <SPC>MAIN
IC17	BA10393F-E2	IC	1	C0BBBB000014 <SPC>MAIN
IC18	MN1382KTX	IC	1	MN1382KP <SPC>MAIN
IC101	M5223FPE1	IC	1	C0AABA000031 <SPC>MAIN
IC102	TC7W74FTE12L	IC	1	C0JBAF000160 <SPC>MAIN
IC103	TC203C220004	IC	1	C1ZBZ0001944 <SPC>MAIN
IC104	QSIGX3C32018	IC	1	<SPC>MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC105	QSIGX3C32017	IC	1	<SPC>MAIN
IC106	QSIGX3C32020	IC	1	<SPC>MAIN
IC107	QSIGX3C32019	IC	1	<SPC>MAIN
IC108	M5M44265CJ6S	IC	1	C3ABKG000098 <SPC>MAIN
IC109	TMS57070FFT	IC	1	<SPC>MAIN
IC111	M5M34051FPE2	IC	1	C1CB00000915 <SPC>MAIN
IC119	TC7SU04FT85L	IC	1	C0JBAZ000519 <SPC>MAIN
IC125	T7WU04FTE12L	IC	1	C0JBAZ000527 <SPC>MAIN
IC127	PCM69BU-T1	IC	1	C0FBBZ000012 <SPC>MAIN
IC129	M5218AFPE3	IC	1	C0ABBB000163 <SPC>MAIN
IP1-P3	ICP-N10T104	IC PROTECTOR	3	B1ZAZ0000035 <SPC>MAIN 
JK1	QJJG010AA	JACK,HEADPHONE 1	1	<SPC>HP
JK1	QJSG007AA	JACK,PEDAL IN	1	<SPC>FJASP
JK1	QJSG017AA	JACK,COMPUTER	1	<SPC>COM
JK2	QJJG010AA	JACK,HEADPHONE 2	1	<SPC>HP
JK2	QJSG016AA	JACK,MIDI IN	1	K1CB103B0007 <SPC>FJASP
JK3	QJSG016AA	JACK,MIDI OUT	1	K1CB103B0007 <SPC>FJASP
JK5	QJJG003AA	JACK,AUX L	1	K2HB102J0037 <SPC>FJASP
JK6	QJJG003AA	JACK,AUX R/R+L	1	K2HB102J0037 <SPC>FJASP
JK7	QJJG003AA	JACK,LINE OUT L	1	K2HB102J0037 <SPC>FJASP
JK8	QJJG003AA	JACK,LINE OUT R/R+L	1	K2HB102J0037 <SPC>FJASP
JK9	SJVD0203B	JACK,AC IN	1	<SPC>FJASP 
JR1-R3	ERDS2T0A	1/4W 0	3	<SPC>PKB
L1	QLQGT2T100LA	10UH×2	1	<SPC>FJASP 
L1	QLQGT3T131LA	130MH×3	1	<SPC>HP
L2	SLCG2A121TZ	120	1	G0B131Z00002 <SPC>MAIN
L3,L4	BK2125LM252T	2.5K	2	J0JBC0000023 <SPC>MAIN
L9-15	BK2125LM252T	2.5K	7	J0JBC0000023 <SPC>MAIN
P1	QPGG0502AA	PACKING CASE	1	<SPC>(K)
P1	QPGG0502AB	PACKING CASE	1	<SPC>(M)
PCB1	SXPG2241221A	FJASP P.C.B.	1	<SPC>(RTL)*3
PCB1	SXPG2241231A	FJASP P.C.B.	1	<SPC>(RTL)(P,PC)
PCB1	SXPG2241241A	FJASP P.C.B.	1	<SPC>(RTL)*4
PCB2	SXPG224322	HP P.C.B.	1	<SPC>(RTL)
PCB3	SXPG231341	MAIN P.C.B.	1	<SPC>(RTL)
PCB4	SXPG227921	COM P.C.B.	1	<SPC>(RTL)
PCB5	SXPG231111A	MKB1 P.C.B.	1	<SPC>(RTL)
PCB6	SXPG231111B	MKB2 P.C.B.	1	<SPC>(RTL)
PCB7	SXPG218221	PKB P.C.B.	1	<SPC>(RTL)
PCB8	SXPG231411A	CPL P.C.B.	1	<SPC>(RTL)
PCB9	SXPG231421B	CPR P.C.B.	1	<SPC>(RTL)
Q1,2	2SC1815TPE2	TRANSISTOR	2	B1AACF000023 <SPC>FJASP
Q1	2SA830STPB	TRANSISTOR	1	<SPC>CPL
Q1	2SD601AQ	TRANSISTOR	1	2SD0601AQ <SPC>MAIN
Q2	2SA830STPB	TRANSISTOR	1	<SPC>CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2	2SC1815TPE2	TRANSISTOR	1	B1AACF000023 <SPC>MAIN
Q3	2SA1015TPE2	TRANSISTOR	1	B1ACCF000016 <SPC>FJASP
Q3	2SA830STPB	TRANSISTOR	1	<SPC>CPL
Q3	2SB709AR	TRANSISTOR	1	2SB709AR <SPC>MAIN
Q4	2SA830STPB	TRANSISTOR	1	<SPC>CPL
Q4	2SC1815TPE2	TRANSISTOR	1	B1AACF000023 <SPC>FJASP
Q5	2SA1015TPE2	TRANSISTOR	1	B1ACCF000016 <SPC>FJASP
Q5	2SA830STPB	TRANSISTOR	1	<SPC>CPL
Q5	2SB709AR	TRANSISTOR	1	2SB709AR <SPC>MAIN
Q6	2SA1015TPE2	TRANSISTOR	1	B1ACCF000016 <SPC>FJASP
Q6	2SD601AQ	TRANSISTOR	1	2SD601AQ <SPC>MAIN
Q7	2SD592ARS	TRANSISTOR	1	<SPC>FJASP
Q8	2SB621A-R	TRANSISTOR	1	2SB621AH <SPC>FJASP
Q8	2SD601AQ	TRANSISTOR	1	2SD601AQ <SPC>MAIN
Q9	2SB946P	TRANSISTOR	1	2SB9460P <SPC>MAIN
Q9	2SD592ARS	TRANSISTOR	1	<SPC>FJASP
Q10	2SB621A-R	TRANSISTOR	1	2SB621AH <SPC>FJASP
Q10	2SC2240GTPE2	TRANSISTOR	1	B1AACL000011 <SPC>MAIN
Q11	2SC1815TPE2	TRANSISTOR	1	B1AACF000023 <SPC>FJASP
Q12	2SA1015TPE2	TRANSISTOR	1	B1ACCF000016 <SPC>FJASP
Q12	2SB709AR	TRANSISTOR	1	2SB709AR <SPC>MAIN
Q13	2SC1815TPE2	TRANSISTOR	1	B1AACF000023 <SPC>FJASP
Q13	2SD601AQ	TRANSISTOR	1	2SD601AQ <SPC>MAIN
Q14	2SA1015TPE2	TRANSISTOR	1	B1ACCF000016 <SPC>FJASP
Q15	2SA1725PY	TRANSISTOR	1	B1BCEJ000004 <SPC>FJASP ⚠
Q16	2SC4511PY	TRANSISTOR	1	B1BAEJ000008 <SPC>FJASP ⚠
Q17	2SA1725PY	TRANSISTOR	1	B1BCEJ000004 <SPC>FJASP ⚠
Q18	2SC4511PY	TRANSISTOR	1	B1BAEJ000008 <SPC>FJASP ⚠
Q20	2SA1015Y	TRANSISTOR	1	B1ACCF000006 <SPC>FJASP
Q100	2SC1815TPE2	TRANSISTOR	1	B1AACF000023 <SPC>MAIN
Q101	2SD592ARS	TRANSISTOR	1	<SPC>MAIN
R1-4	ERG1SJ470	47	4	<SPC>HP ⚠
R1	ERDS2TJ103	1/4W 10K	1	<SPC>FJASP
R1	ERDS2TJ471	1/4W 470	2	<SPC>CPL
R1	ERJ6GEYJ471V	1/10W 470	1	<SPC>MAIN
R2,3	ERDS2FJ221	1/4W 220	2	<SPC>CPL
R2	ERDS2TJ103	1/4W 10K	1	<SPC>FJASP
R2	ERJ6GEYJ471V	1/10W 470	1	<SPC>MAIN
R3	ERD2FCVJ6R8	6.8	1	<SPC>FJASP ⚠
R3	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R4	ERD2FCVJ6R8	6.8	1	<SPC>FJASP ⚠
R4	ERDS2TJ471	1/4W 470	1	<SPC>CPL
R4	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R5	ERD2FCVJ6R8	6.8	1	<SPC>FJASP ⚠
R5	ERDS2T0	1/4W 0	2	<SPC>CPL
R5	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R6	ERDS2FJ104	1/4W 100K	1	<SPC>FJASP

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6	ERDS2TJ101	1/4W 100	1	<SPC>CPL
R7	ERDS2FJ473	1/4W 47K	1	<SPC>FJASP
R7	ERDS2TJ103	1/4W 10K	1	<SPC>CPL
R7	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R8-10	ERDS2TJ472	1/4W 4.7K	3	<SPC>PKB
R8	ERDS2FJ333	1/4W 33K	1	<SPC>CPL
R8	ERDS2FJ473	1/4W 47K	1	<SPC>FJASP
R8	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R9	ERDS2TJ103	1/4W 10K	1	<SPC>CPL
R9	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R9	ERDS2TJ103	1/4W 10K	1	<SPC>FJASP
R10	ERDS2FJ332	1/4W 3.3K	1	<SPC>FJASP
R10	ERJ6GEYJ103V	1/10W 10K	1	<SPC>MAIN
R11-14	ERDS2T0	1/4W 0	4	<SPC>CPL
R11	ERDS2TJ472	1/4W 4.7K	1	<SPC>FJASP
R11	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R12	ERDS2TJ103	1/4W 10K	1	<SPC>FJASP
R12	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R13,14	ERDS2TJ103	1/4W 10K	2	<SPC>FJASP
R14	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R15	ERDS2TJ103	1/4W 10K	1	<SPC>CPL
R15	ERDS2TJ472	1/4W 4.7K	1	<SPC>FJASP
R15	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R16	ERJ6GEYJ220	1/10W 22	1	ERJ6GEYJ220V <SPC>MAIN
R17-24	ERDS2TJ103	1/4W 10K	8	<SPC>CPL
R17	ERDS2FJ332	1/4W 3.3K	1	<SPC>FJASP
R17	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R18	ERDS2TJ334	1/4W 330K	1	<SPC>FJASP
R18	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R19	ERDS2TJ274	1/4W 270K	1	<SPC>FJASP
R19	ERJ6GEYJ470V	1/10W 47	1	<SPC>MAIN
R20	ERDS2FJ222	1/4W 2.2K	1	<SPC>FJASP
R20	ERJ6GEYJ221V	1/10W 220	1	<SPC>MAIN
R21	ERDS2TJ220	1/4W 22	1	<SPC>FJASP
R21	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R22	ERD25FVJ4R7	4.7	1	<SPC>FJASP ⚠
R22	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R23	ERD2FCG220	22	1	<SPC>FJASP ⚠
R23	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R24	ERDS2TJ334	1/4W 330K	1	<SPC>FJASP
R24	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R25	ERDS2TJ274	1/4W 270K	1	<SPC>FJASP
R25	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R26	ERDS2FJ222	1/4W 2.2K	1	<SPC>FJASP
R26	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R27	ERDS2TJ220	1/4W 22	1	<SPC>FJASP
R28	ERD25FVJ4R7	4.7	1	<SPC>FJASP ⚠
R29	ERD2FCG220	22	1	<SPC>FJASP ⚠
R29	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R30	ERDS2FJ332	1/4W 3.3K	1	<SPC>FJASP
R30	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R31-39	ERDS2TJ101	1/4W 100	9	<SPC>CPL
R31	ERDS2FJ223	1/4W 22K	1	<SPC>FJASP

DATE	DESCRIPTION	AMOUNT		
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R31	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R32	ERDS2FJ223	1/4W 22K	1	<SPC>FJASP
R32	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R33	ERDS2TJ563	1/4W 56K	1	<SPC>FJASP
R33	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R34	ERDS2TJ682T	1/4W 6.8K	1	<SPC>FJASP
R34	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R35	ERDS2FJ332	1/4W 3.3K	1	<SPC>FJASP
R35	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R36	ERDS2FJ223	1/4W 22K	1	<SPC>FJASP
R36	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R37	ERDS2FJ223	1/4W 22K	1	<SPC>FJASP
R37	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R38	ERDS2TJ563	1/4W 56K	1	<SPC>FJASP
R38	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R39	ERDS2TJ682T	1/4W 6.8K	1	<SPC>FJASP
R39	ERJ6GEYJ103V	1/10W 10K	1	<SPC>MAIN
R40	ERDS2FJ104	1/4W 100K	1	<SPC>CPL
R40	ERDS2TJ682T	1/4W 6.8K	1	<SPC>FJASP
R40	ERJ6GEYJ103V	1/10W 10K	1	<SPC>MAIN
R41	ERDS2FJ681	1/4W 680	1	<SPC>FJASP
R41	ERJ6GEYJ103V	1/10W 10K	1	<SPC>MAIN
R42	ERDS2FJ224	1/4W 220K	1	<SPC>FJASP
R42	ERJ6GEYJ151	1/10W 150	1	<SPC>MAIN
R43	ERDS2TJ182	1/4W 1.8K	1	<SPC>FJASP
R43	ERJ6GEYJ105	1/10W 1M	1	ERJ6GEYJ105V <SPC>MAIN
R44	ERDS2FJ224	1/4W 220K	1	<SPC>FJASP
R45	ERDS2TJ152	1/4W 1.5K	1	<SPC>FJASP
R45	ERJ6GEYJ681V	1/10W 680	1	<SPC>MAIN
R46	ERDS2TJ154	1/4W 150K	1	<SPC>FJASP
R47	ERDS2TJ152	1/4W 1.5K	1	<SPC>FJASP
R47	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R48	ERDS2TJ184	1/4W 180K	1	<SPC>FJASP
R48	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R49	ERDS2FJ821	1/4W 820	1	<SPC>FJASP
R49	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R50	ERDS2TJ154	1/4W 150K	1	<SPC>FJASP
R50	ERJ6GEYJ471V	1/10W 470	1	<SPC>MAIN
R51	ERDS2TJ272	1/4W 2.7K	1	<SPC>FJASP
R51	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R52	ERDS2FJ224	1/4W 220K	1	<SPC>FJASP
R52	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R53	ERDS2TJ682T	1/4W 6.8K	1	<SPC>FJASP
R53	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R54	ERDS2TJ182	1/4W 1.8K	1	<SPC>FJASP
R54	ERJ6GEYJ220	1/10W 22	1	ERJ6GEYJ220V <SPC>MAIN
R55	ERDS2FJ224	1/4W 220K	1	<SPC>FJASP
R56	ERDS2FJ681	1/4W 680	1	<SPC>FJASP
R57	ERDS2FJ224	1/4W 220K	1	<SPC>FJASP
R58	ERDS2TJ152	1/4W 1.5K	1	<SPC>FJASP
R58	ERJ6GEYJ105	1/10W 1M	1	ERJ6GEYJ105V <SPC>MAIN
R59	ERDS2TJ184	1/4W 180K	1	<SPC>FJASP
R59	ERJ6GEYJ682V	1/10W 6.8K	1	<SPC>MAIN
R60	ERDS2TJ152	1/4W 1.5K	1	<SPC>FJASP

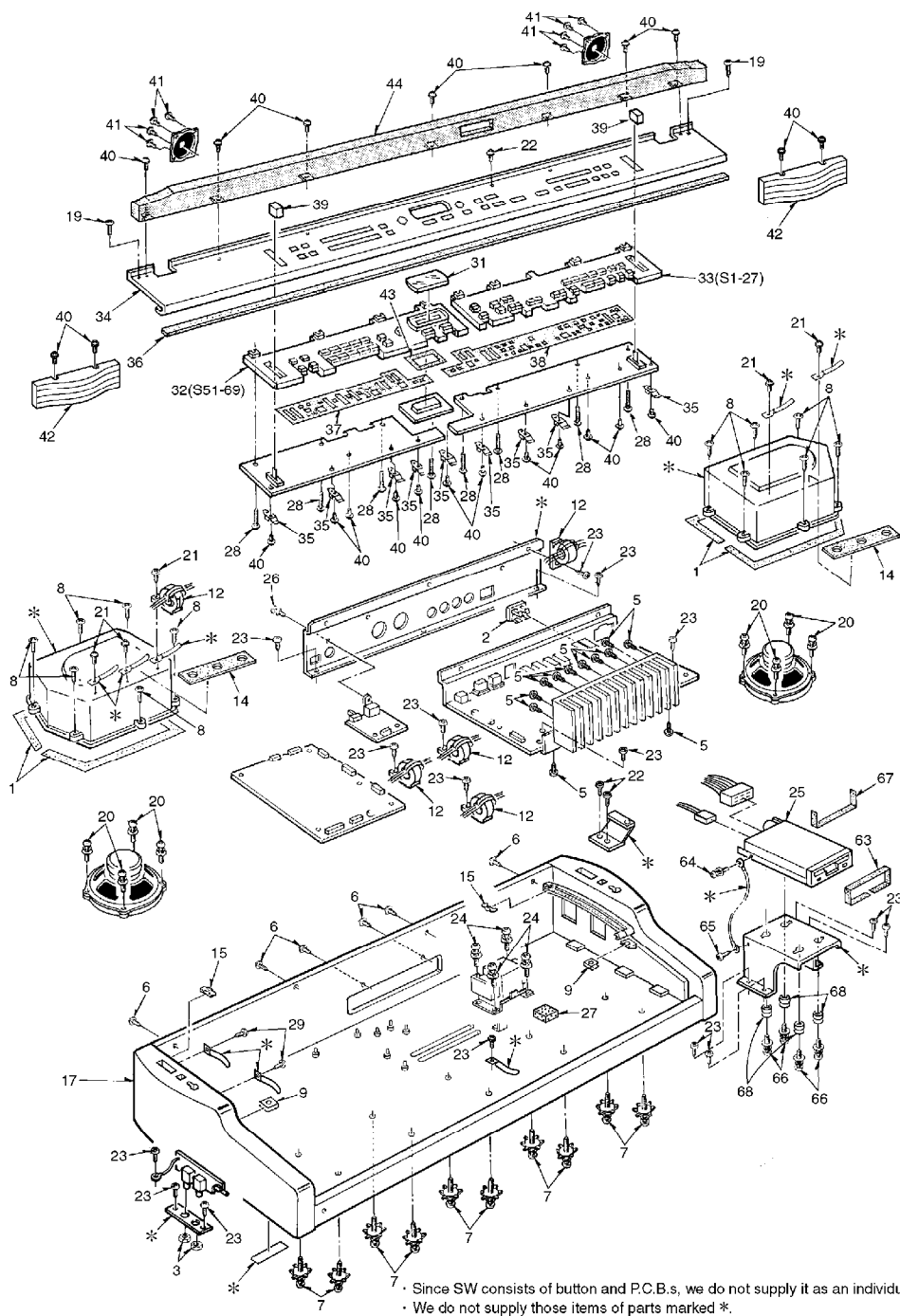
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
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R61	ERDS2TJ154	1/4W 150K	1	<SPC>FJASP
R61	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R62	ERDS2FJ821	1/4W 820	1	<SPC>FJASP
R62	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R63	ERDS2TJ154	1/4W 150K	1	<SPC>FJASP
R63	ERJ6GEYJ470V	1/10W 47	1	<SPC>MAIN
R64	ERDS2TJ272	1/4W 2.7K	1	<SPC>FJASP
R64	ERJ6GEYJ470V	1/10W 47	1	<SPC>MAIN
R65	ERDS2FJ224	1/4W 220K	1	<SPC>FJASP
R65	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R66	ERDS2FJ223	1/4W 22K	1	<SPC>FJASP
R66	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R67	ERDS2TJ684	1/4W 680K	1	<SPC>FJASP
R67	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R68	ERDS2TJ102	1/4W 1K	1	<SPC>FJASP
R68	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R69	ERDS2TJ272	1/4W 2.7K	1	<SPC>FJASP
R69	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R70	ER0S2TKF1001	1/4W 1K	1	ER0S2TKF1001 <SPC>FJASP
R70	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R71	ER0S2TKF1002	1/4W 10K	1	ER0S2TKF1002 <SPC>FJASP
R71	ERJ6GEYJ103V	1/10W 10K	1	<SPC>MAIN
R72	ER0S2TKF1001	1/4W 1K	1	ER0S2TKF1001 <SPC>FJASP
R72	ERJ6GEYJ332V	1/10W 3.3K	1	<SPC>MAIN
R73	ERDS2TJ272	1/4W 2.7K	1	<SPC>FJASP
R73	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R74	ERD2FCVG101	100	1	<SPC>FJASP ⚠
R74	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R75	ERJ6GEYJ154V	1/10W 150K	1	<SPC>MAIN
R76,77	ERDS2FJ331	1/4W 330	2	<SPC>FJASP
R77	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R78	ERDS2FJ331	1/4W 330	1	<SPC>FJASP
R78	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R79	ERD2FCVG101	100	1	<SPC>FJASP ⚠
R79	ERJ6GEYJ334V	1/10W 330K	1	<SPC>MAIN
R80	ERD2FCJ4R7	4.7	1	<SPC>FJASP ⚠
R80	ERJ6GEYJ331V	1/10W 330	1	<SPC>MAIN
R81	ERF5ZXK4R7	4.7	1	<SPC>FJASP ⚠
R81	ERJ6GEYJ333V	1/10W 33K	1	<SPC>MAIN
R82	ERDS2FJ223	1/4W 22K	1	<SPC>FJASP
R82	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R83	ERDS2TJ684	1/4W 680K	1	<SPC>FJASP
R83	ERJ6GEYJ470V	1/10W 47	1	<SPC>MAIN
R84	ERDS2TJ102	1/4W 1K	1	<SPC>FJASP
R84	ERJ6GEYJ681V	1/10W 680	1	<SPC>MAIN
R85	ERDS2TJ272	1/4W 2.7K	1	<SPC>FJASP
R85	ERJ6GEYJ151	1/10W 150	1	<SPC>MAIN
R86	ER0S2TKF1001	1/4W 1K	1	ER0S2TKF1001 <SPC>FJASP
R86	ERJ6GEYJ681V	1/10W 680	1	<SPC>MAIN
R87	ER0S2TKF1002	1/4W 10K	1	ER0S2TKF1002 <SPC>FJASP
R87	ERJ6GEYJ151	1/10W 150	1	<SPC>MAIN
R88	ER0S2TKF1001	1/4W 1K	1	ER0S2TKF1001 <SPC>FJASP

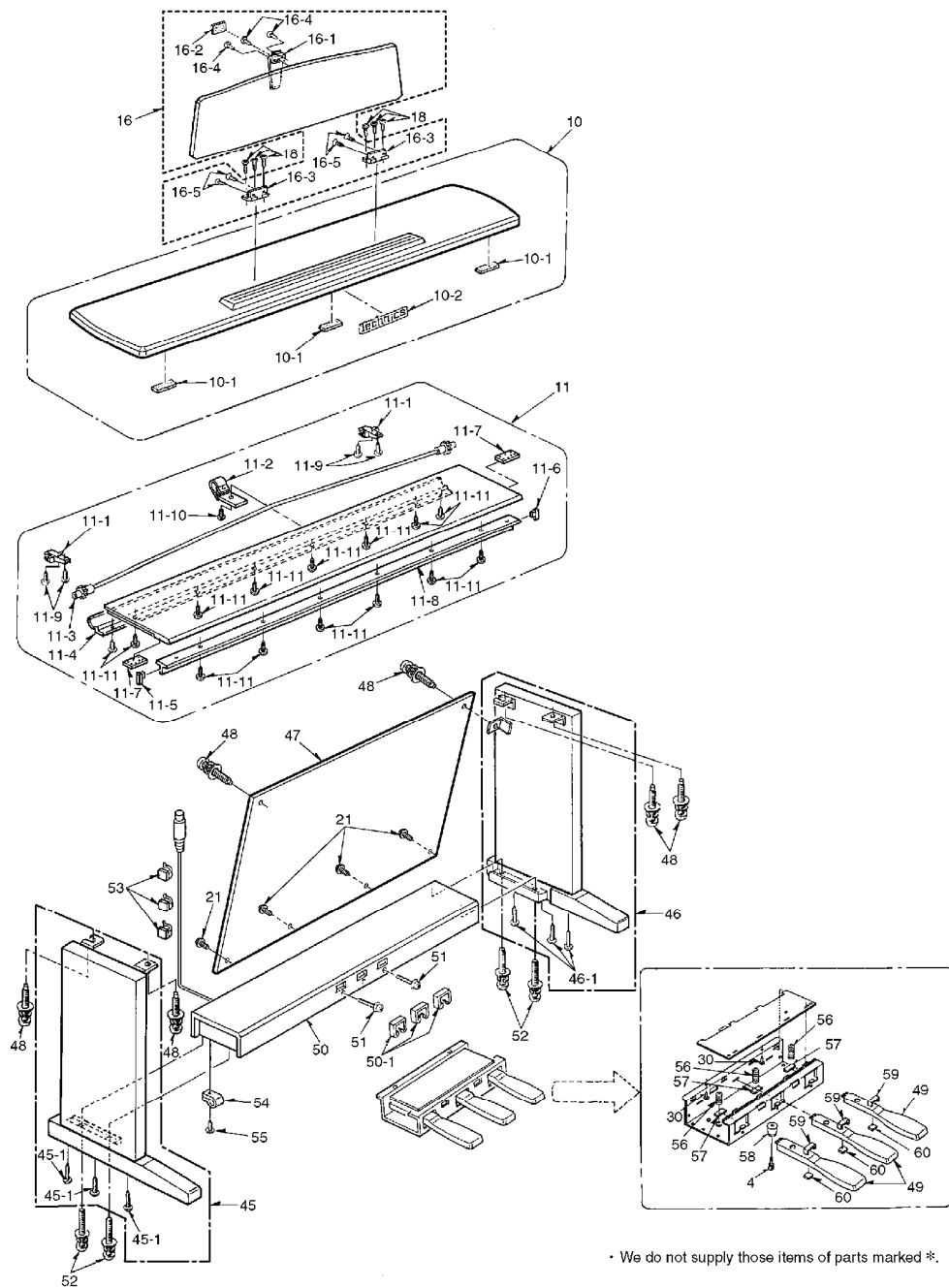
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R88	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R89	ERDS2TJ272	1/4W 2.7K	1	<SPC>FJASP
R90	ERD2FCVG101	100	1	<SPC>FJASP ⚠
R90	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R91	ERDS2FJ331	1/4W 330	1	<SPC>FJASP
R91	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R92	ERDS2FJ331	1/4W 330	1	<SPC>FJASP
R92	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R93	ERDS2FJ331	1/4W 330	1	<SPC>FJASP
R93	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R94	ERD2FCVG101	100	1	<SPC>FJASP ⚠
R94	ERJ6GEYJ222V	1/10W 2.2K	1	<SPC>MAIN
R95	ERD2FCJ4R7	4.7	1	<SPC>FJASP ⚠
R95	ERJ6GEYJ682V	1/10W 6.8K	1	<SPC>MAIN
R96	ERF5ZXK4R7	5W 4.7	1	<SPC>FJASP
R100	ERJ6GEYJ471V	1/10W 470	1	<SPC>MAIN
R101	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R102	ERDS2TJ471	1/4W 470	1	<SPC>FJASP
R102	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R103	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R104	ERDS2TJ471	1/4W 470	1	<SPC>FJASP
R104,05	ERJ6GEYJ472V	1/10W 4.7K	2	<SPC>MAIN
R106	ERDS2TJ471	1/4W 470	1	<SPC>FJASP
R106	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R107	ERJ6GEYJ471V	1/10W 470	1	<SPC>MAIN
R108	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R109	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R110	ERDS2TJ151	1/4W 150	1	<SPC>FJASP
R110	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R111	ERDS2FJ330	1/4W 33	1	<SPC>FJASP
R111	ERJ6GEYJ105	1/10W 1M	1	ERJ6GEYJ105V <SPC>MAIN
R112	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R113	ERDS2FJ221	1/4W 220	1	<SPC>FJASP
R113	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R114	ERDS2FJ331	1/4W 330	1	<SPC>FJASP
R114	ERJ6GEYJ681V	1/10W 680	1	<SPC>MAIN
R115	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R115	ERQ2CJP4R7S	4.7	1	<SPC>FJASP ⚠
R116	ERQ14AJ2R0	2	1	<SPC>FJASP ⚠
R117	ERJ6GEYJ331V	1/10W 330	1	<SPC>MAIN
R118	ERDS2FJ221	1/4W 220	1	<SPC>FJASP
R118	ERJ6GEYJ331V	1/10W 330	1	<SPC>MAIN
R119	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R120,21	ERJ6GEYJ101V	1/10W 100	2	<SPC>MAIN
R123	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R125,26	ERJ6GEYJ102V	1/10W 1K	2	<SPC>MAIN
R128	ERJ6GEYJ105	1/10W 1M	1	ERJ6GEYJ105V <SPC>MAIN
R129	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R130	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R131,32	ERJ6GEYJ682V	1/10W 6.8K	2	<SPC>MAIN
R133	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R134	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R135	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R136	ERJ6GEYJ102V	1/10W 1K	1	<SPC>MAIN
R137	ERJ6GEYJ472V	1/10W 4.7K	1	<SPC>MAIN
R138	ERJ6GEYJ681V	1/10W 680	1	<SPC>MAIN
R142-45	BK2125LM252T	2.5K	4	J0JBC0000023 <SPC>MAIN
R147-50	BK2125LM252T	2.5K	4	J0JBC0000023 <SPC>MAIN
R146	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R152	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R153,54	ERJ6GEYJ331V	1/10W 330	2	<SPC>MAIN
R155,56	ERJ6GEYJ101V	1/10W 100	2	<SPC>MAIN
R157	ERD25V0R00T	1/4W 0	1	<SPC>MAIN
R158	ERJ6GEYJ101V	1/10W 100	1	<SPC>MAIN
R159	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R160	ERJ6GEYJ224V	1/10W 220K	1	<SPC>MAIN
R161	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R162	ERJ6GEYJ331V	1/10W 330	1	<SPC>MAIN
R167	ERJ6GEYJ221V	1/10W 220	1	<SPC>MAIN
R169	ERJ6GEYJ224V	1/10W 220K	1	<SPC>MAIN
R171	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
R175,76	ERJ6GEY0R00V	1/10W 0	2	<SPC>MAIN
R178	ERJ6GEYJ104V	1/10W 100K	1	<SPC>MAIN
R179	ERJ6GEYJ473V	1/10W 47K	1	<SPC>MAIN
RJ1	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
RJ3	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
RJ7	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
RJ13	ERJ6GEY0R00V	1/10W 0	1	<SPC>MAIN
SP1,2	QASG14P01A	14CM,4 Ω	2	<SPC>
SP3,4	QASG65PH03A	6.5CM,8 Ω	2	<SPC>
SW1	QSPG1010AA	SW,POWER	1	<SPC>
SW1	QSRGT005AA	SW,VOLTAGE SELECTOR	1	K0AFDB000002 <SPC>FJASP* 4 
SW1	QSSGT011AA	LEVER SWITCH	1	K0D114B00008 <SPC>COM
SW1	QSTGT001AA	LEVER SWITCH	1	K0D112A00015 <SPC>PKB
SW1-27	EVQ21507K	SW,TACT	27	<SPC>CPR
SW2,W3	QSTGT001AA	LEVER SWITCH	2	K0D112A00015 <SPC>PKB
SW51-69	EVQ21507K	SW,TACT	19	<SPC>CPL
T1	QTPG1N017A	POWER TRANSFORMER	1	G4C7AFK00001 <SPC>*2 
T1	QTPG1N022A	POWER TRANSFORMER	1	G4C7AFD00002 <SPC>(P,PC) 
VR1	QRVG25N01B53	V.R.,SEQUENCER VOLUME	1	D2B5A53B0001 <SPC>CPR
VR2	QRVG25P01B53	V.R.,MAIN VOLUME	1	D2B5C53B0001 <SPC>CPL
W1	QEXGSS06075A	WIRE WITH CONNECTOR	1	<SPC>
W2	QEXGVH04075G	WIRE WITH CONNECTOR	1	<SPC>
W3	QEXGVH05055E	WIRE WITH CONNECTOR	1	<SPC>
W4	QEXGSS07010B	WIRE WITH CONNECTOR	1	<SPC>
W5	QEXGSS12015C	WIRE WITH CONNECTOR	1	<SPC>
W6	QEXGSS10015B	WIRE WITH CONNECTOR	1	<SPC>

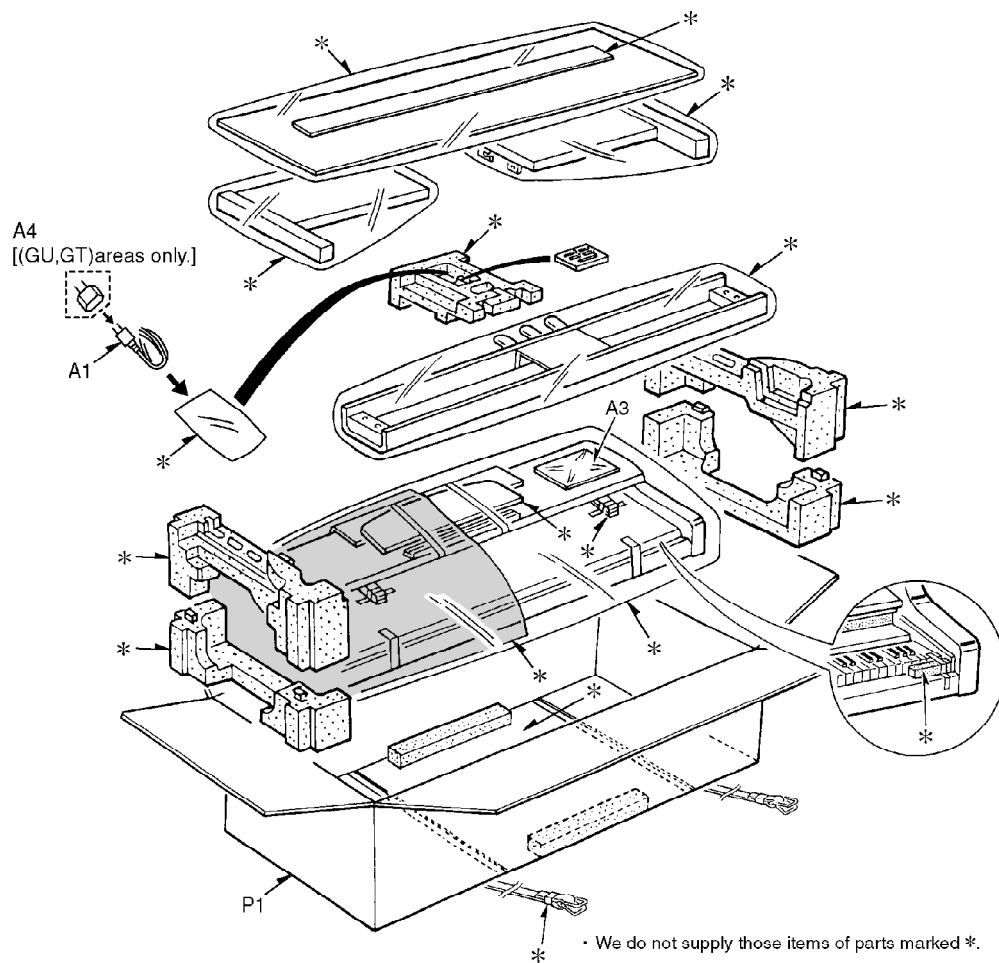
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W7	QEXGZA34070C	WIRE WITH CONNECTOR	1	<SPC>
W8	QEXGST16060B	WIRE WITH CONNECTOR	1	<SPC>
W9	QEXGSS08025C	WIRE WITH CONNECTOR	1	<SPC>
W10	QEXGSS10022C	WIRE WITH CONNECTOR	1	<SPC>
W11	QEXGSS06015D	WIRE WITH CONNECTOR	1	<SPC>
W12	QEXGZA05020C	WIRE WITH CONNECTOR	1	<SPC>
W14	QEXGVH03090B	WIRE WITH CONNECTOR	1	<SPC>
X1	EF0MC4004T5	4MHZ CERAMIC OSC.	1	<SPC>CPL
X1	QXSG1A1000A	10MHZ CERAMIC OSC.	1	H0H100500003 <SPC>MAIN
X3	QXSG2F2400A	24MHZ CERAMIC OSC.	1	H2A240500003 <SPC>MAIN
X100	QXSG2F0100DA	1MHZ CERAMIC OSC.	1	H2A100400003 <SPC>MAIN
X101	QXSG1I3386A	33.86MHZ CERAMIX OSC.	1	H0D338500005 <SPC>MAIN
X102	QXSG1A2500A	25MHZ CERAMIC OSC.	1	H0H250500003 <SPC>MAIN
Z1,Z2	EXBV8V101J	100 Ω x4	2	<SPC>MAIN
Z3	EXBS8V331J	330 Ω x4	1	<SPC>MAIN
Z4,Z5	EXBV8V101J	100 Ω x4	2	<SPC>MAIN
Z6	EXBV8V331J	330 Ω x4	1	EXBV8V331JV <SPC>MAIN
Z7,Z8	EXBS8V331J	330 Ω x4	2	<SPC>MAIN
Z17-20	EXBS8V472J	4.7K Ω x4	4	<SPC>MAIN
Z21	EXBV8V102J	1K Ω x4	1	<SPC>MAIN
Z22-24	EXBV8V470J	47 Ω x4	3	D1H84704A008 <SPC>MAIN
Z100,01	EXBS8V471J	470 Ω x4	2	<SPC>MAIN
Z102	EXBV8V471J	470 Ω x4	1	EXBV8V471JV <SPC>MAIN
Z103,04	EXBV8V472J	4.7K Ω x4	2	D1H847240002 <SPC>MAIN
Z105	EXBV8V102J	1K Ω x4	1	<SPC>MAIN
Z106-18	EXBV8V221J	220 Ω x4	13	<SPC>MAIN
Z119	EXBV8V101J	100 Ω x4	1	<SPC>MAIN
Z120	EXBV8V221J	220 Ω x4	1	<SPC>MAIN

20. Cabinet Parts Location

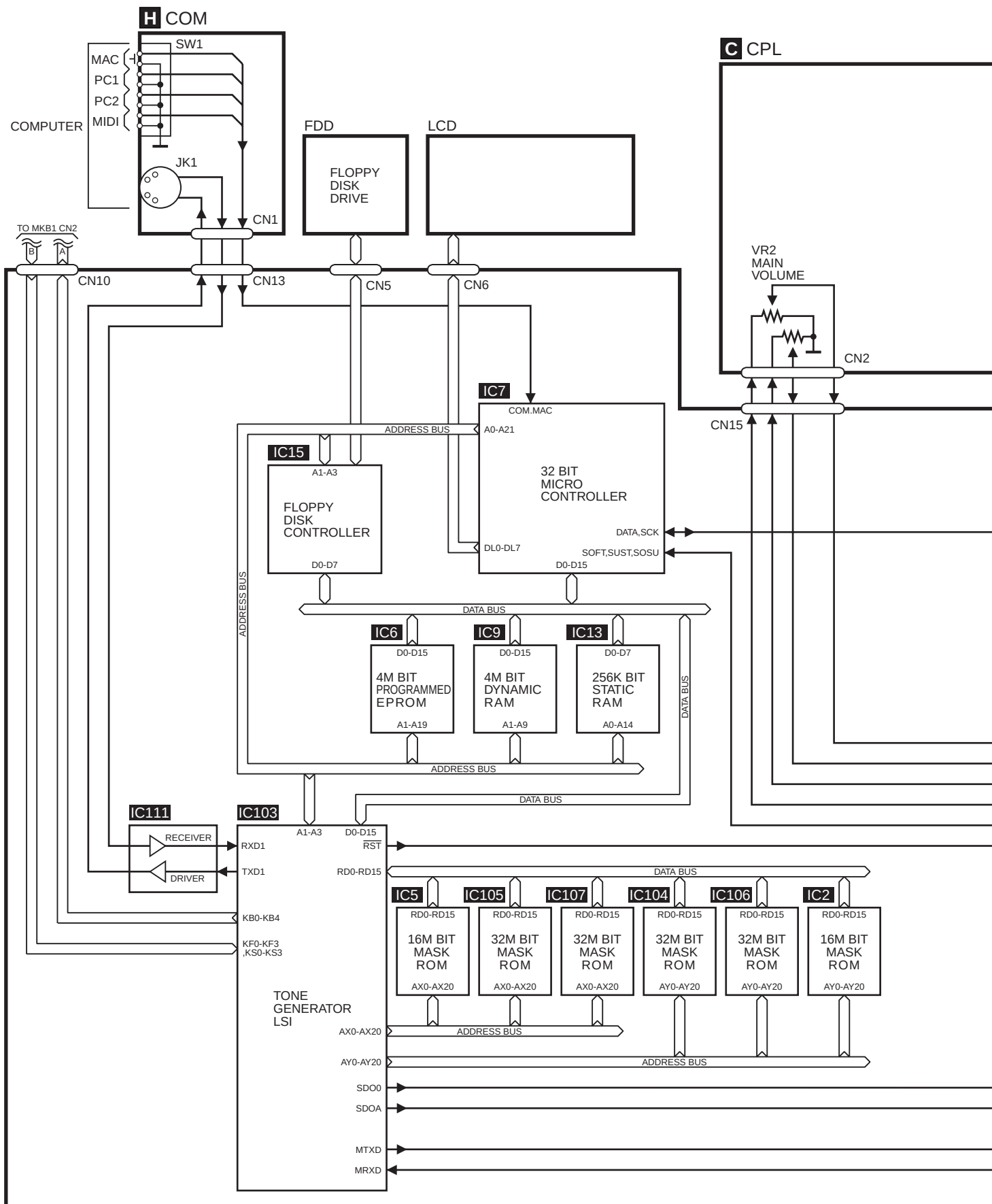


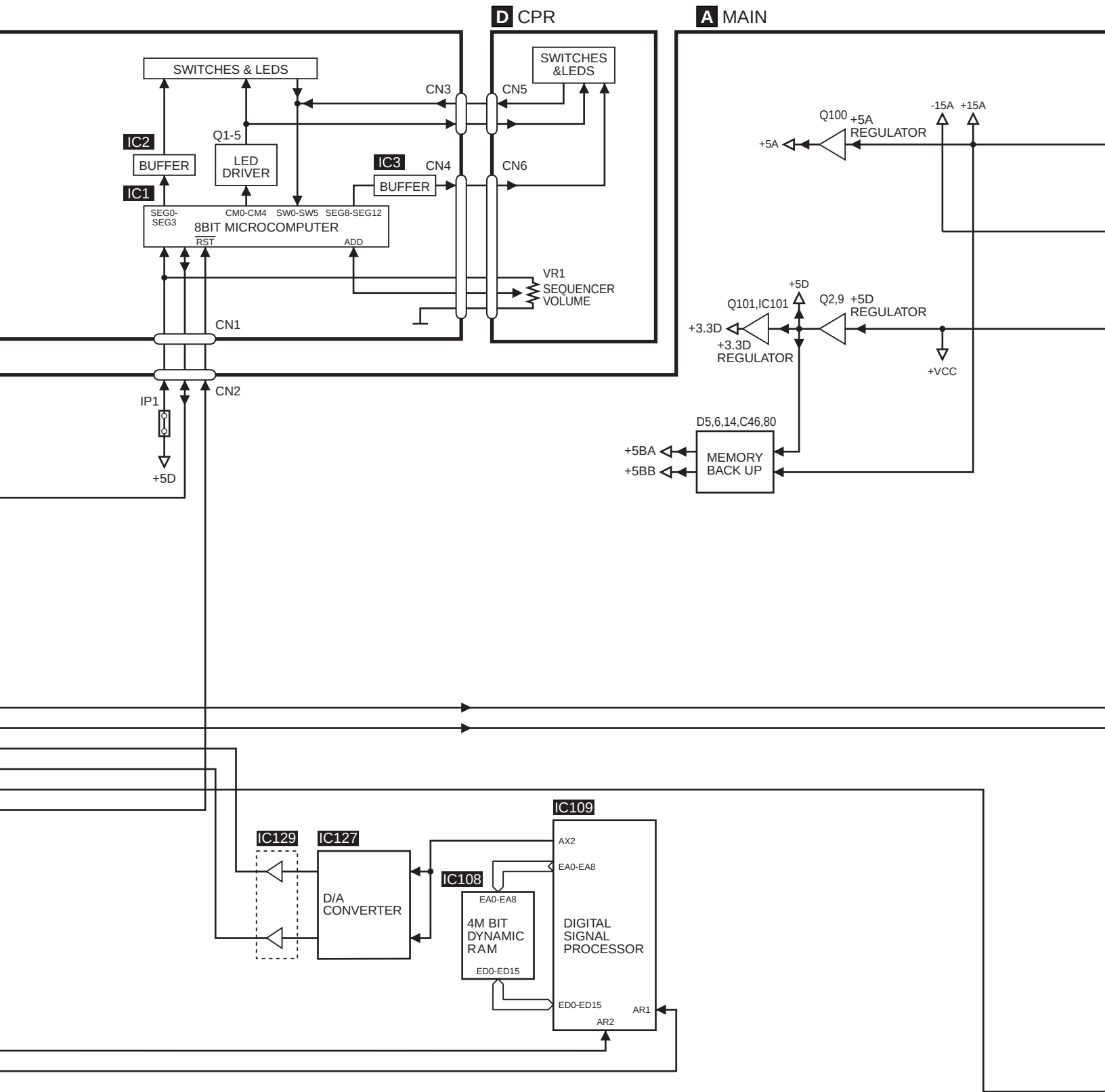


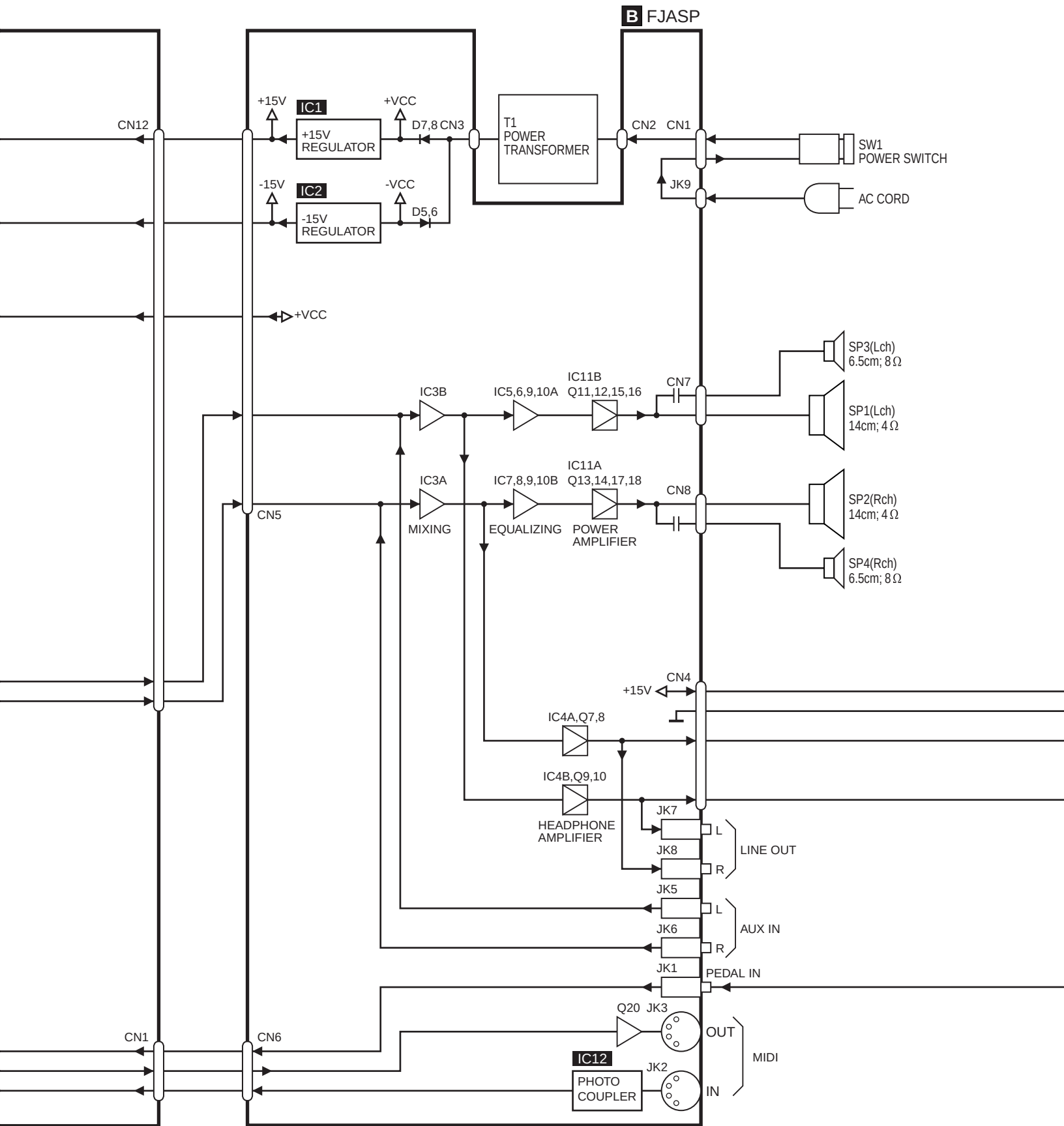
21. Manual Keyboard Parts Location

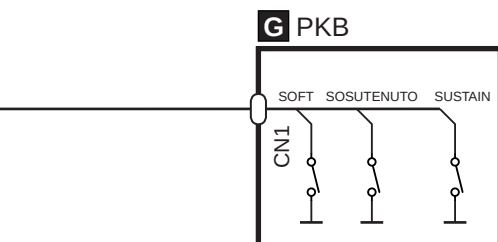
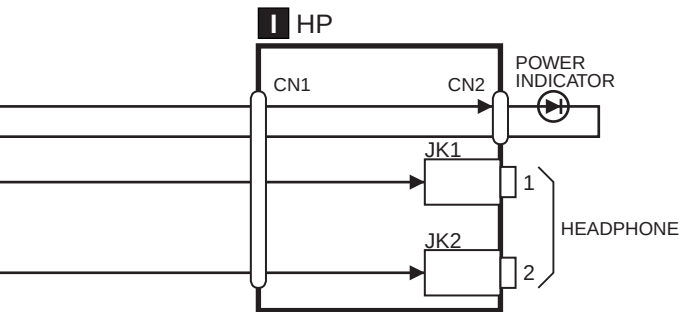
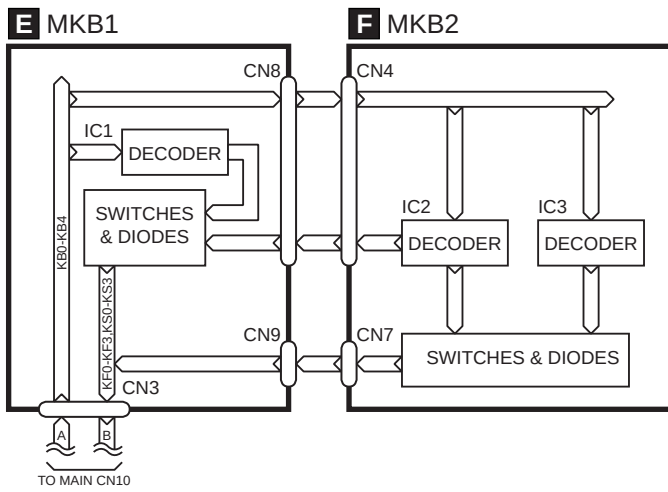


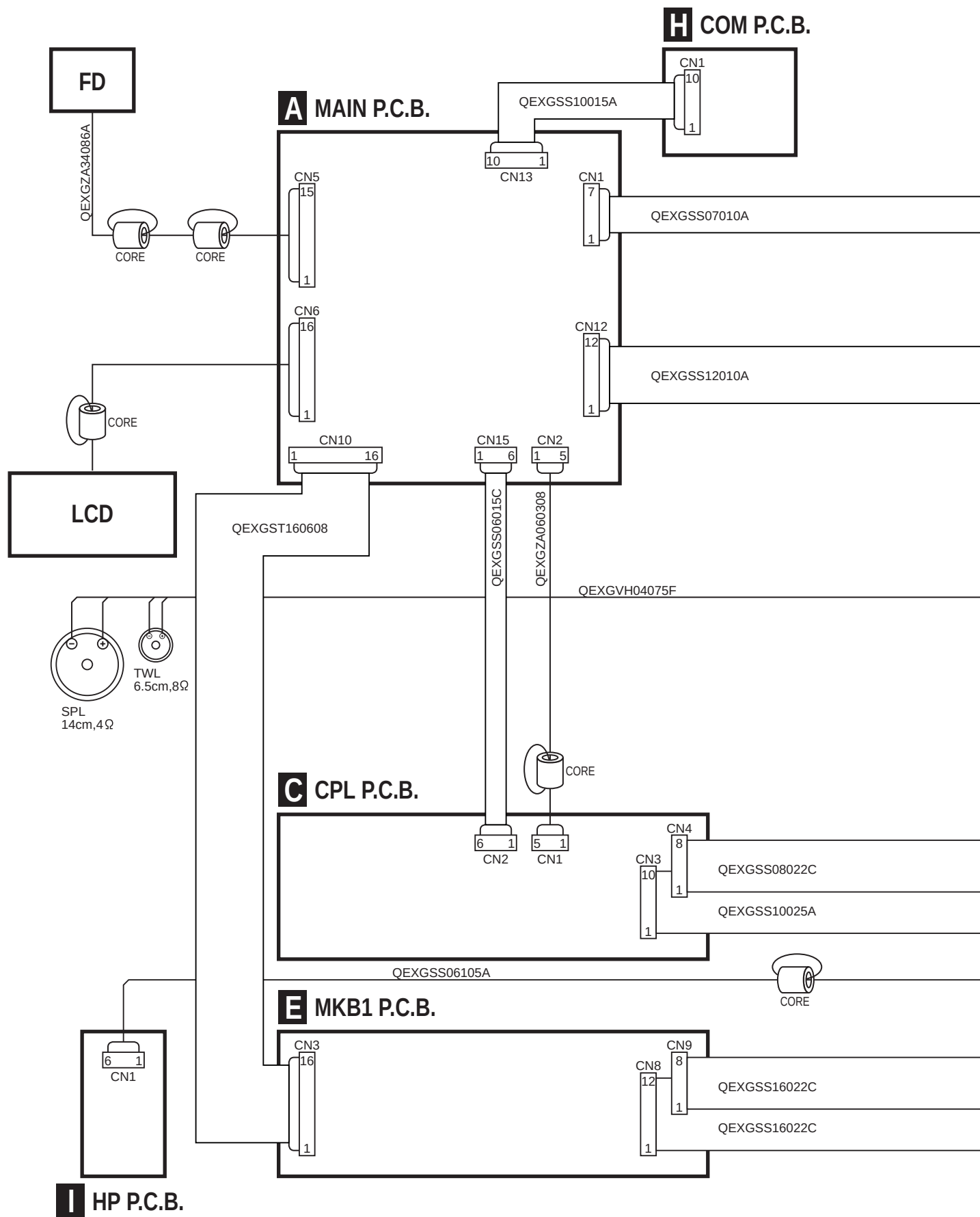
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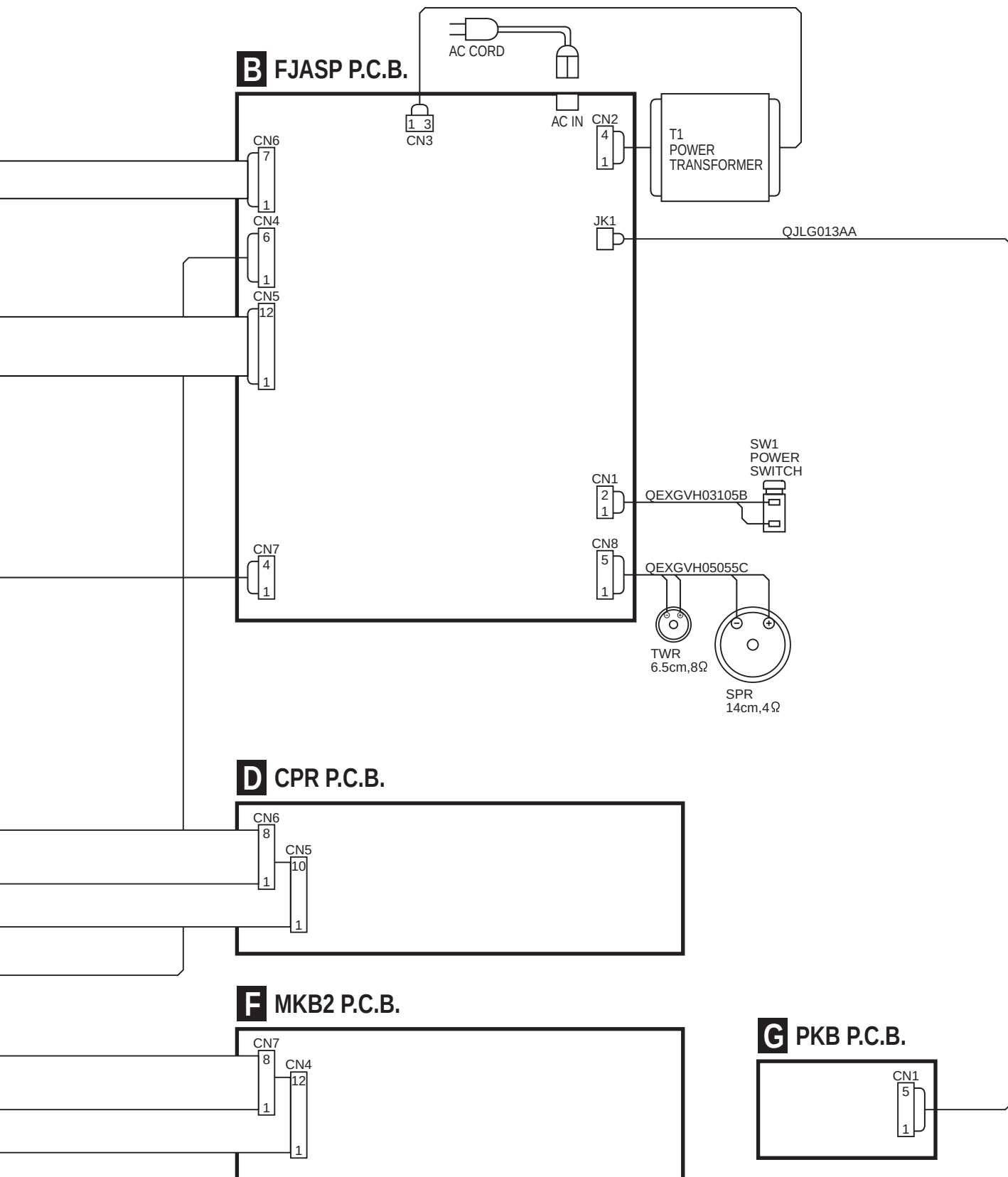








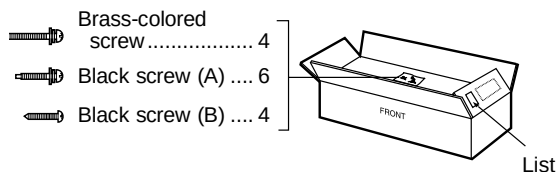




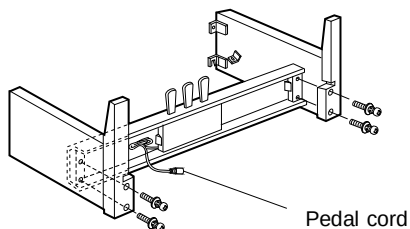
Follow the steps below to assemble your Technics piano. Make sure you are using the correct parts and that they are in the correct direction.

- At least 2 people are required for assembly.
- To disassemble the piano, reverse the procedure.

1. Remove the packing and take the parts out of the carton. Confirm that all the parts on the printed list are present.



2. Affix the right and left side planks to the pedal box.



- (1) Use the 4 brass-colored screws to secure the planks.

- (2) Be sure to insert the screws straight.

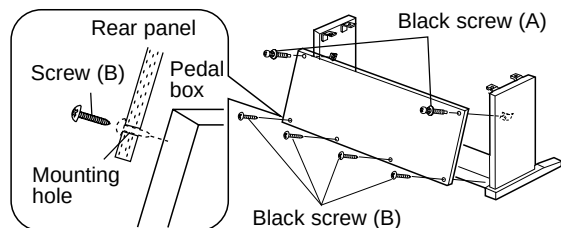
- If a screw is inserted crookedly, it may be damaged.

- (3) Insert each of the 4 screws partway, lightly securing each one little by little. After confirming that the screws are all correctly inserted, tighten each one securely.

- If each screw is tightened securely before all the screws are inserted, the last screw may be very difficult to insert.

- (4) Extend the pedal cord on the inner side of the pedal box.

3. Affix the rear panel.



- For the brown wood grain model: affix the rear panel so that the wood grain surface is facing the front.

- (1) Insert the 2 black screws (A) partway in the upper part of the rear panel, securing them only lightly. Do not tighten the screws completely at this time.

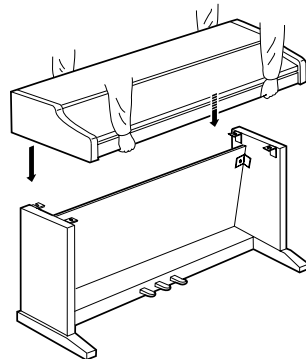
- If the screws are tightened securely at this time, it may be difficult to affix the lower part of the rear panel.

- (2) Insert the 4 black screws (B) through the mounting holes in the lower part of the rear panel and tighten the screws fully.

- Run the screws directly into the pedal box as there are no rough holes in the pedal box.

- (3) Tighten the 2 black screws (A) in the upper part of the rear panel completely.

4. Place the piano body on the stand.



WARNING:

Avoid pinching your fingers.

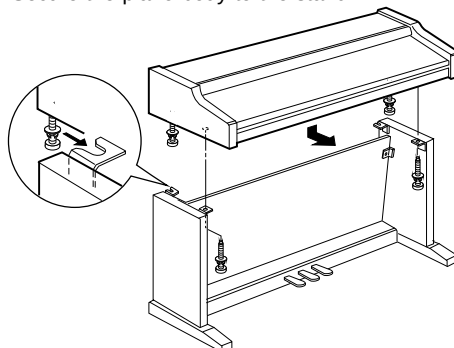
Note 1

Holding the piano body at least 10 cm in from the edge, place it on the stand so that it does not fall off.

Note 2

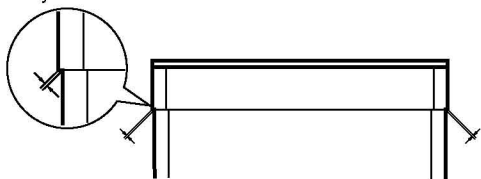
If the piano body is placed too far to the right or left, or to the front or back, it will become unstable.

5. Secure the piano body to the stand.



- (1) Insert 2 black screws (A) in the 2 rear screw holes on the underside of the piano body, and turn each screw 5 or 6 times. Push the piano body forward so that the screws are fully inserted in the cutout of the metal piece on either side plank. (This enables you to easily position the piano body on the stand.)

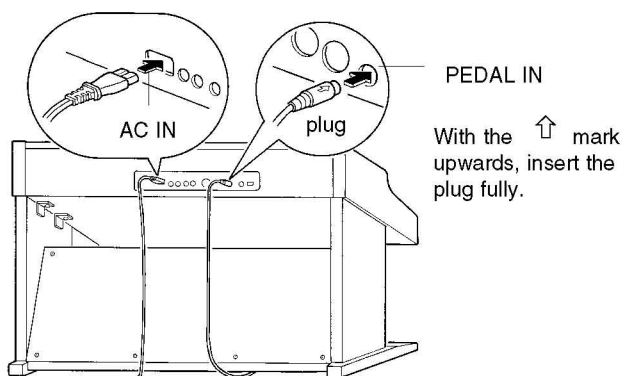
- (2) Adjust the piano body so that the right and left sides project evenly over the stand.



- (3) Positioning the piano body on the stand, confirm that the 4 black screws (A) can easily be inserted.

- (4) Tighten the 4 screws securely.

6. Connect the pedal cord and power cord to the terminals.



- Plug the pedal cord and power cord into the terminals on the rear of the piano.

Confirm

After assembling, check these points.

- Are any parts left over?
 - Check the assembly procedure again.
 - Does the piano rattle when it is rocked?
 - Make sure all the screws are securely tightened.
 - Is the power cord firmly inserted?
 - Check again.
 - Is the plug of the pedal cord inserted as far into the connector terminal as it will go?
 - If it is not completely inserted, the sustain and other pedal functions may not work.
- When the piano has been moved or transported, re-tighten the screws securely.

SOUND

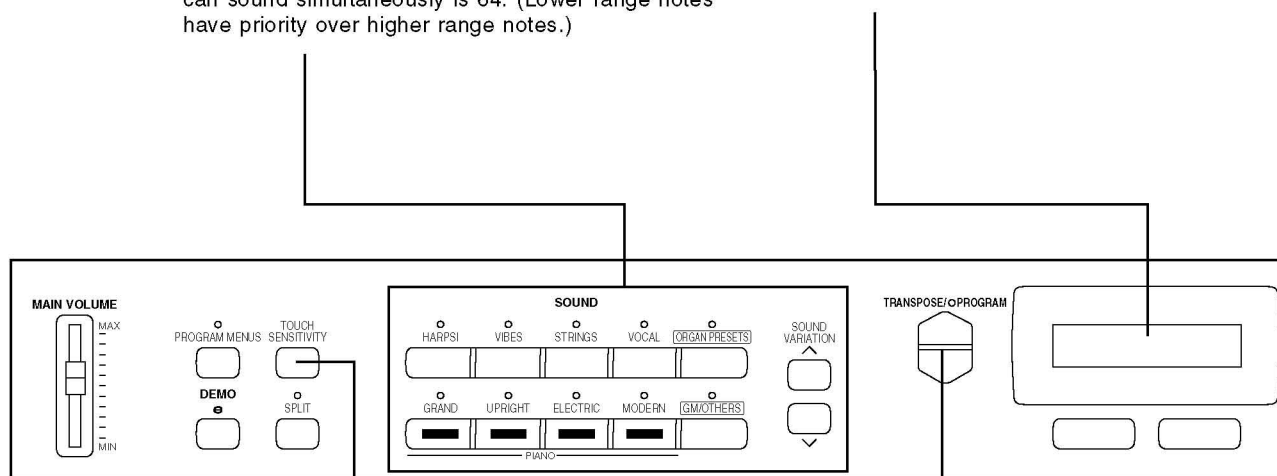
Press one of the **SOUND** buttons, and then use the **SOUND VARIATION** buttons to select the desired sound.

Each sound features Touch Response, which increases the volume when the keyboard is played harder.

- The sounds can be mixed when two **SOUND** buttons are pressed simultaneously.
- You can split the keyboard into right and left sections and assign a different sound to each section.
- On this piano, the maximum number of notes which can sound simultaneously is 64. (Lower range notes have priority over higher range notes.)

DISPLAY

Displays performance information, function settings and other messages.



TOUCH SENSITIVITY

The keyboard touch (Touch Response) can be changed to match your type of playing.

TRANPOSE

Raise or lower the key of the entire keyboard.

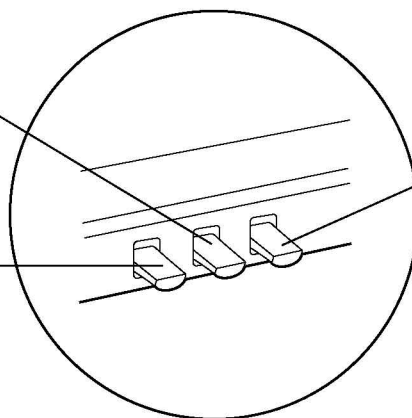
Sostenuto pedal

The middle pedal is used as a sostenuto pedal. If the pedal is pressed while the keys are pressed, a sustain effect is applied to those notes only.

- For sustained-type sounds (**ORGAN PRESETS, STRINGS, VOCAL**, etc.), the notes sound for as long as the pedal is depressed.

Soft pedal

The left pedal can be used as a soft pedal. When the pedal is depressed, the sound is softer.



EFFECT

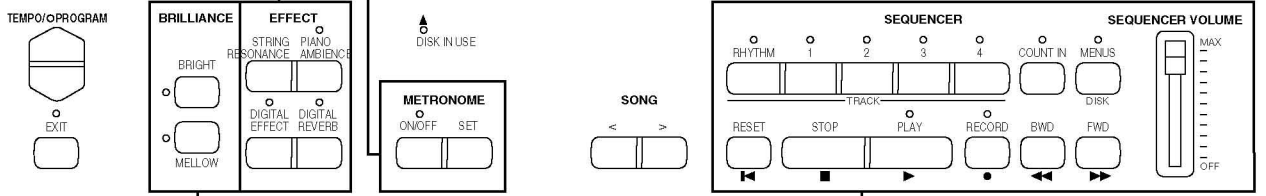
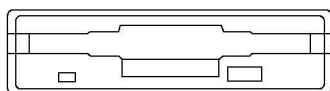
Add various effects to the sounds.

DISK DRIVE

You can store your recorded songs on a floppy disk, as well as play back commercial song disks.

METRONOME

Perfect your playing by practicing in time with the metronome.



BRILLIANCE

The **BRILLIANCE** allows you to select the brightness of the sound from 5 settings.

SEQUENCER

Record your performance and have it automatically played back.

Sustain pedal

The right pedal allows you to use sustain. When a key is released while this pedal is depressed, the sound is sustained so that it lingers and slowly fades out.

- String resonance is added to some sounds.

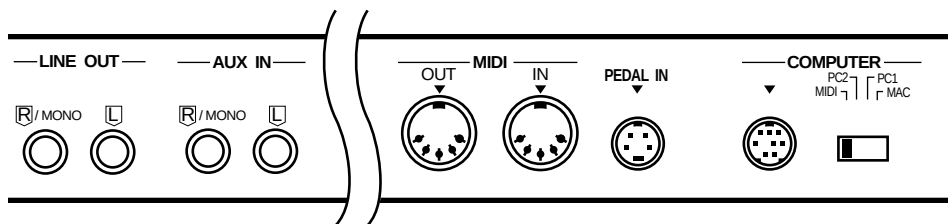
About the backup memory

The instrument settings (except recorded song data) is retained for about one week after the power is turned off.

To save your recorded song data, please store it on a floppy disk before turning off the power.

- This instrument's recorded song data is retained for about one minute after the power is turned off.

(on the rear panel)



AUX IN (input level 0.5 Vrms, 6 k Ω)

Other instruments such as a sound generator can be connected to this terminal, and the sound will be output from this instrument's speakers.

- To receive monaural sound, connect the other instrument to the **R/MONO** terminal. (Do not connect the **L** terminal.)

LINE OUT (output level 1.5 Vrms, 600 Ω)

By connecting an external high-power amplifier, the sound can be reproduced at a high volume.

- To output monaural sound, connect the external equipment to the **R/MONO** terminal. (Do not connect the **L** terminal.) However, there are some cases where the sound quality may deteriorate depending on the sound.

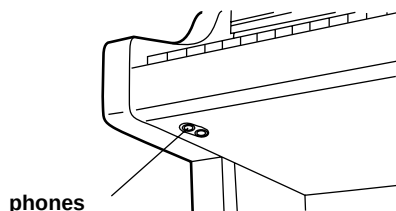
MIDI

These terminals are for connection to another MIDI instrument.

HEADPHONES (phones) $\times 2$

(Beneath the keyboard, on the left side)

For silent practice headphones may be used. When plugged in, the speaker system is automatically switched off, and sound is heard only through the headphones.



COMPUTER

By connecting this terminal to the serial port of a computer, performance data can be exchanged. Use the switch to select the type of computer.

- Be sure that the power to this instrument is turned off when connecting to a computer or when changing the switch setting.

Caution:

Failure to turn off the power before changing the switch setting may result in malfunction.

- The new switch setting is effective the next time the power is turned on.
- When no computer is connected, or when a MIDI interface is used, the switch should be set to **MIDI**.

Connection to a Macintosh series computer

Use an ACCESSORY CABLE (SZ-JJAP1: sold separately) to connect the **COMPUTER** terminal of this instrument to the modem port or printer port of a Macintosh Series computer. Set the switch to **MAC**.

- Set the MIDI interface clock of the Macintosh software to 1 MHz.
- Do not remove the core at either end of the cable.

Connection to a PC

Use an ACCESSORY CABLE (SZ-JJAT1: sold separately) to connect the **COMPUTER** terminal of this instrument to the RS232C terminal of a PC. Set the switch to **PC2**.

- The MIDI driver included with the cable should be installed in the computer. (Refer to the manual accompanying the cable.) This MIDI driver is not compatible with Windows NT or Windows 2000.
- Do not remove the core at either end of the cable.

* All product and company names are trademarks or registered trademarks of their respective owners.

No.	Contents
00: WRONG DISK!	The data on the disk that you are using is for a different product.
01: LOAD ERROR! TRY AGAIN!	An error has occurred while the disk was loading. Please try again!
02: NO DISK	There is no disk in the Disk Drive.
03: FILE EMPTY!	The file that you tried to play is empty.
04: SAVE ERROR! TRY AGAIN!	An error has occurred while the disk was saving. Please try again!
05: WRITE PROTECTED!	The disk that you are using is write protected. Please remove the write protection and try again.
06: DISK FULL!	The disk that you are using is full. Please use another disk.
07: FORMAT ERROR	An error has occurred while the disk was formatting. The disk that you are using may be faulty. Please try formatting another disk.
08: COPY PROTECTED!	You attempted to save a song which is based on copyrighted song data. Such data cannot be saved.
09: NO SEQUENCER DATA!	The song you are trying to save is empty.
10: UNFORMAT DISK	The disk you are using has not been formatted. Format the disk before using it.
11: SEQUENCER DATA ERROR!	An error occurred during playback. Playback is not possible.
12: MEMORY FULL!	The recording memory is full. Further recording is not possible.
13: ONLY FOR PLAY	This song data is for playback only. Recording or saving to a disk is not possible.
14: DRUM KIT ONLY FOR RHYTHM TR	DRUM KIT sounds (GM/OTHERS) can be recorded only in the RHYTHM track. It is not possible to record these sounds in other tracks.

The following changes in performance may occur in this instrument but do not indicate trouble.

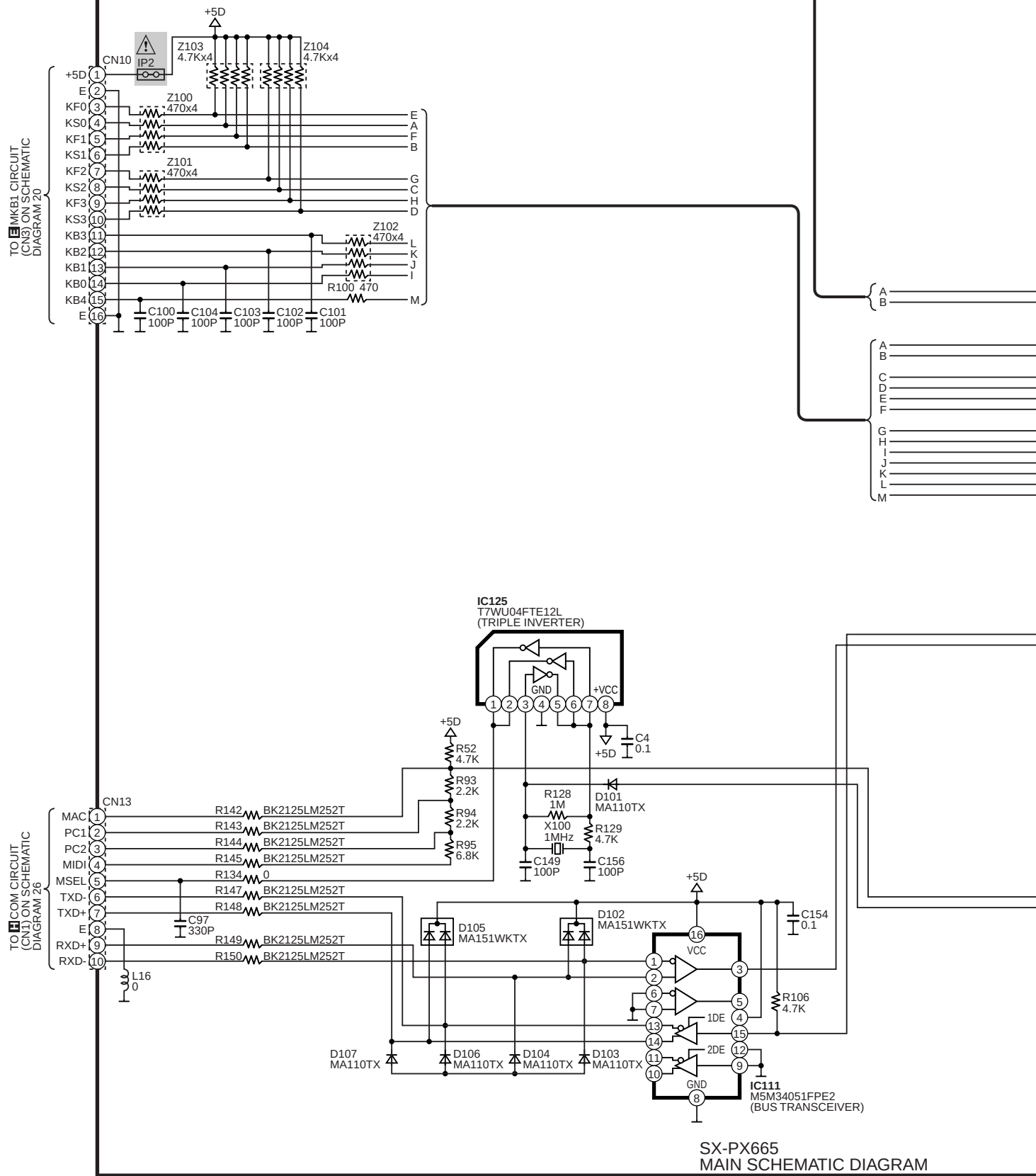
Phenomenon		Remedy
Sounds and effects	The buttons, keys, etc. malfunction.	Turn off the POWER button once, then turn it on again. If this procedure is not successful, turn off the POWER button once. Then, while pressing the INITIAL key, turn the POWER button on again. (Note that, in this case, all programmable settings, functions and memories return to their factory-preset status.)
	No sound is produced when the keys are pressed.	- The MAIN VOLUME is at the minimum setting. Adjust the volume with the MAIN VOLUME control. - The LOCAL CONTROL for a part performed on the keyboard is set to OFF. Set the LOCAL CONTROL to ON.
	Only percussive instrument sounds are produced when the keyboard is played.	The DRUM KITS sounds in the GM/OTHERS button is selected.
	The volume is very low when the keyboard is played.	The volume setting in the SEQUENCER contents is very low. Follow the INITIALIZE procedure to reset the settings.
	The sustain does not work even when the sustain pedal is depressed.	The sustain pedal is not connected. Connect the pedal cord firmly to the PEDAL IN terminal on the back of the instrument.
SEQUENCER	Storage is not possible.	The remaining memory capacity of the SEQUENCER is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory.
Disk Drive	The Disk Drive produces a noise during recording or playback.	This occurs when the Disk Drive is reading a disk. It does not indicate a problem.
	When the procedure to play back a song from the disk is performed, the contents of the instrument's memory are erased.	When performing the operation to play back a song from a disk, this instrument's memory is overwritten by the data from the disk. If you wish to preserve a song which is stored in this instrument's memory, save it to a disk before performing the disk playback procedure.
MIDI	Data cannot be exchanged through MIDI terminals.	- The switch for the COMPUTER terminal is not set to MIDI. Turn off the power to this instrument and set the switch to MIDI. - Match the channels on the transmitting side and the receiving side.
	The sound quavers or is distorted.	When the COMPUTER terminal or both the MIDI IN and OUT terminals are connected to a computer, depending on the computer software the received data may be sent back to the instrument just as it is. Because of this the sound generated from the keys and the sound generated from the returned data are both produced, causing undesirable effects, such as the sounds canceling each other out, for example. In this case, either change the software settings to prevent received data from being returned, or set the MIDI LOCAL CONTROL to off.

Phenomenon		Remedy
Other	Noise from a radio or TV can be heard.	• This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument. • The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center.
	The cabinet becomes warm during use.	• This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.

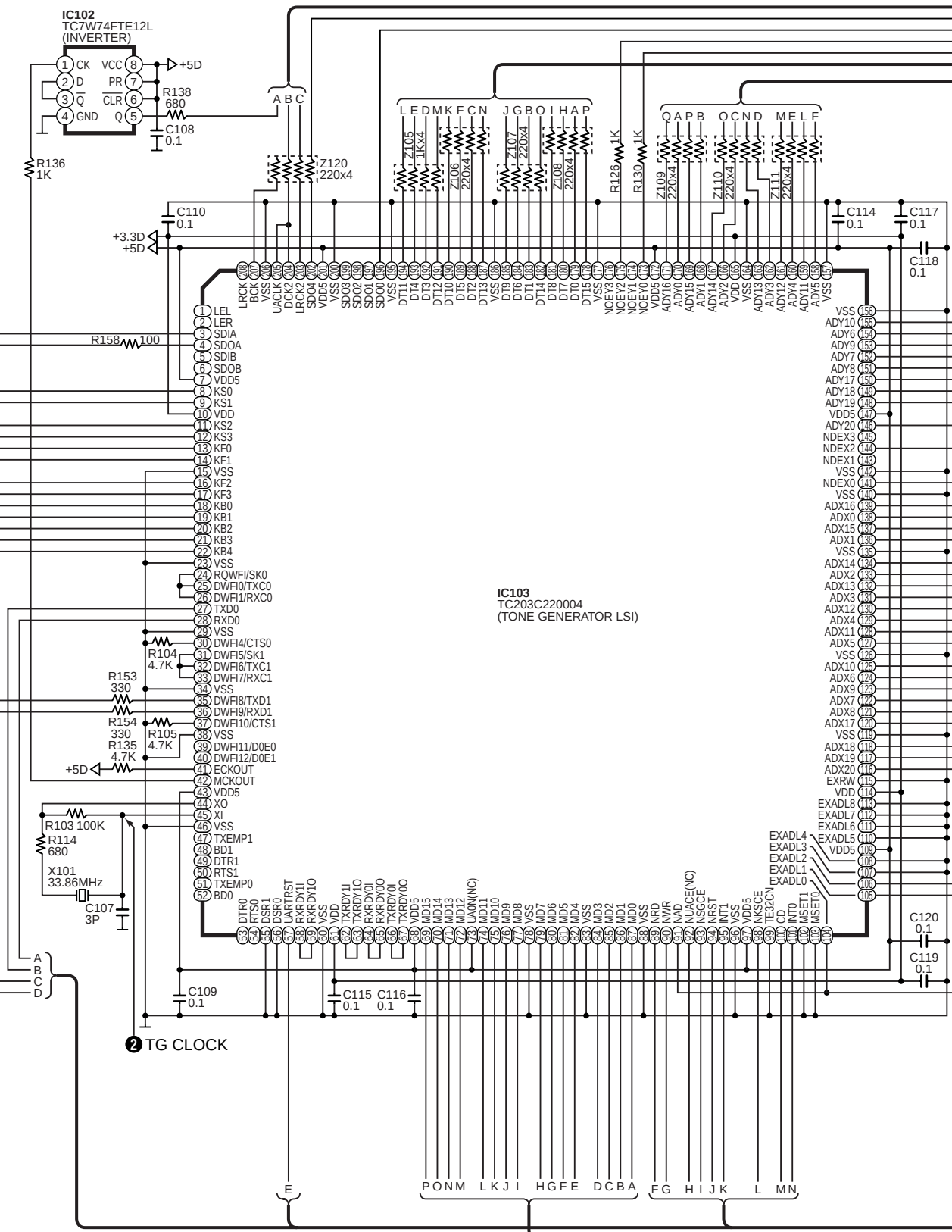
SCHEMATIC DIAGRAM-1

NOTE:
The number which noted at the connectors on the schematic diagram as
"SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2"
indicates the schematic diagram serial number located on the left corner in the schematic diagram.

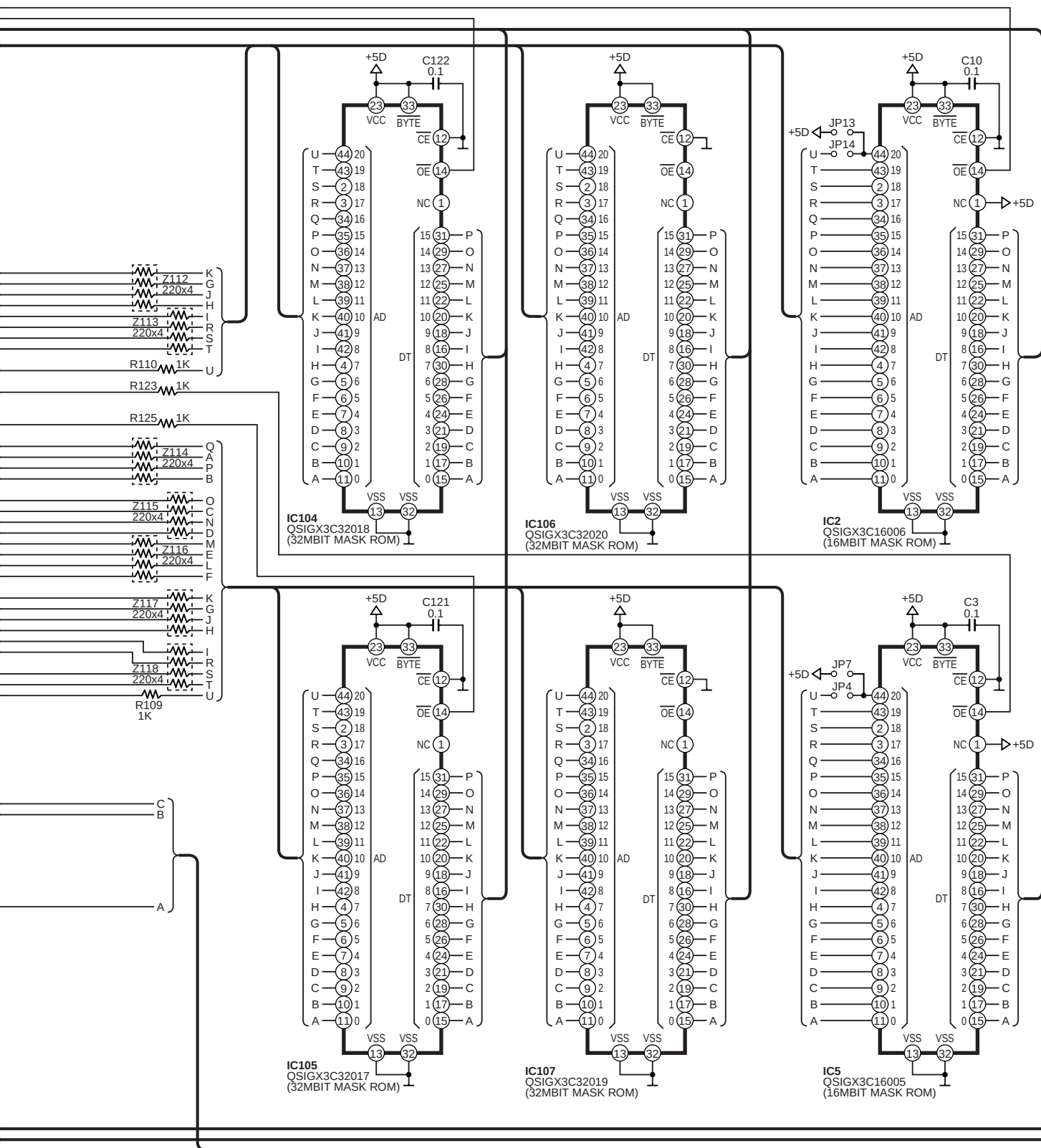
A MAIN CIRCUIT



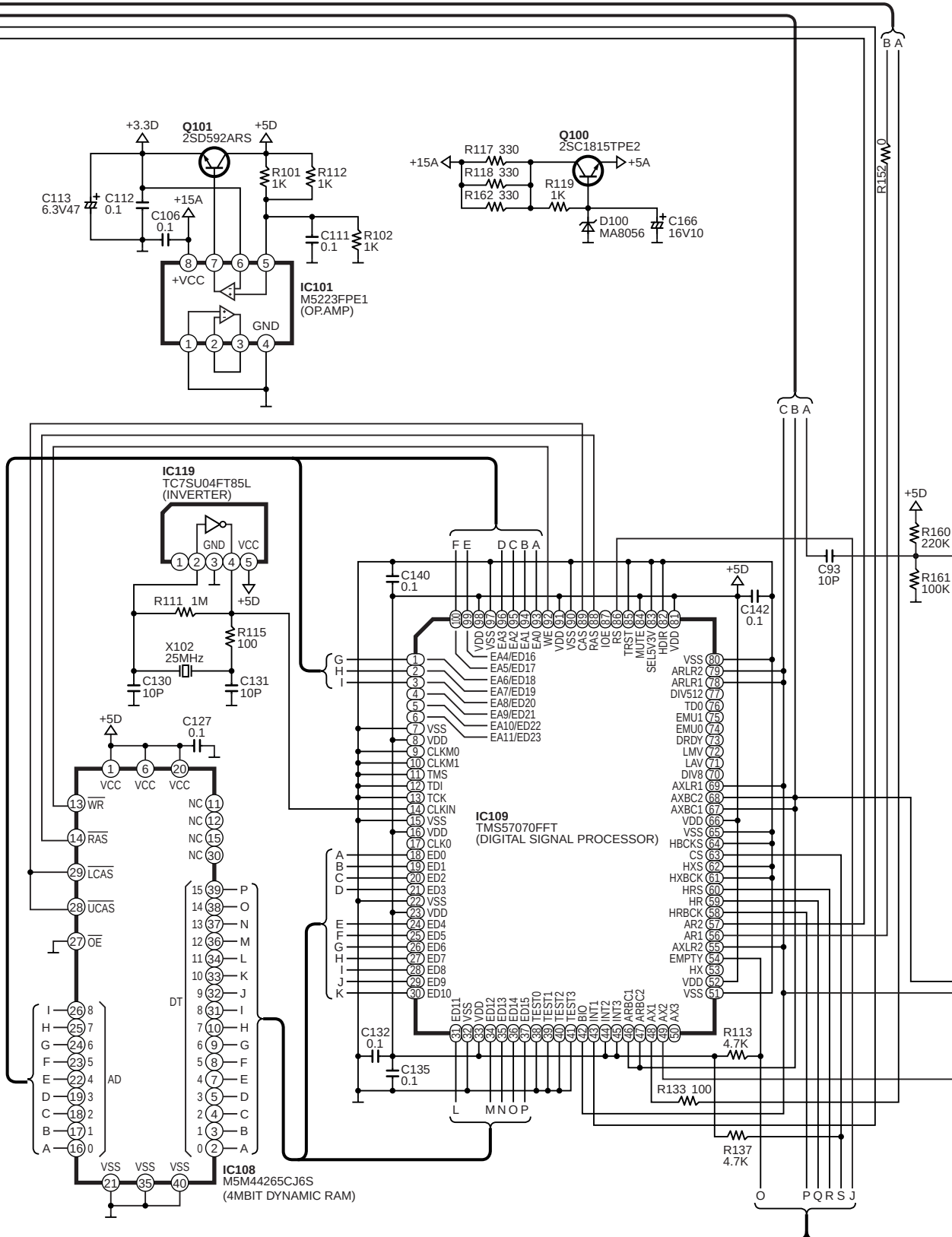
SCHEMATIC DIAGRAM-2



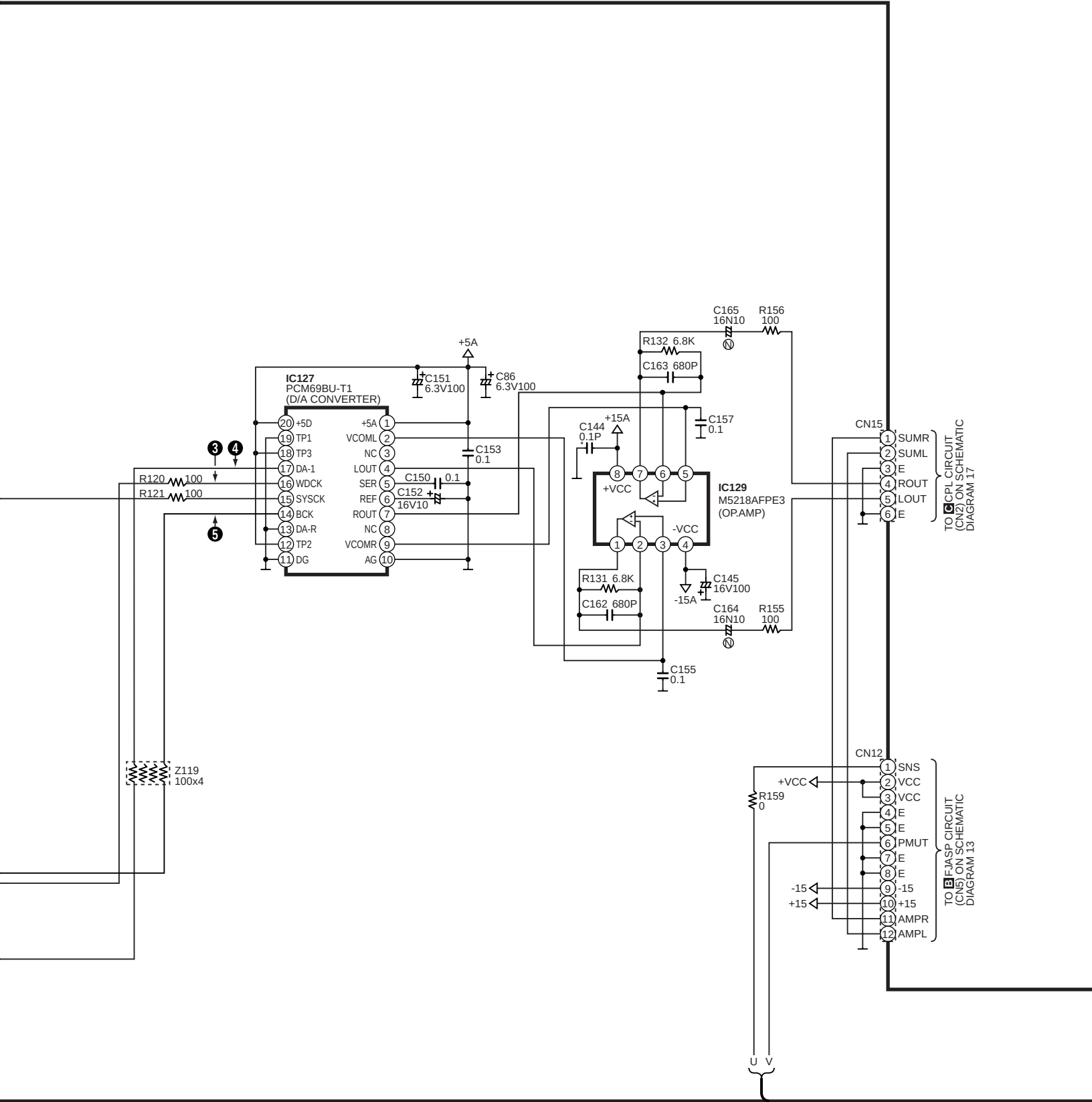
SCHEMATIC DIAGRAM-3



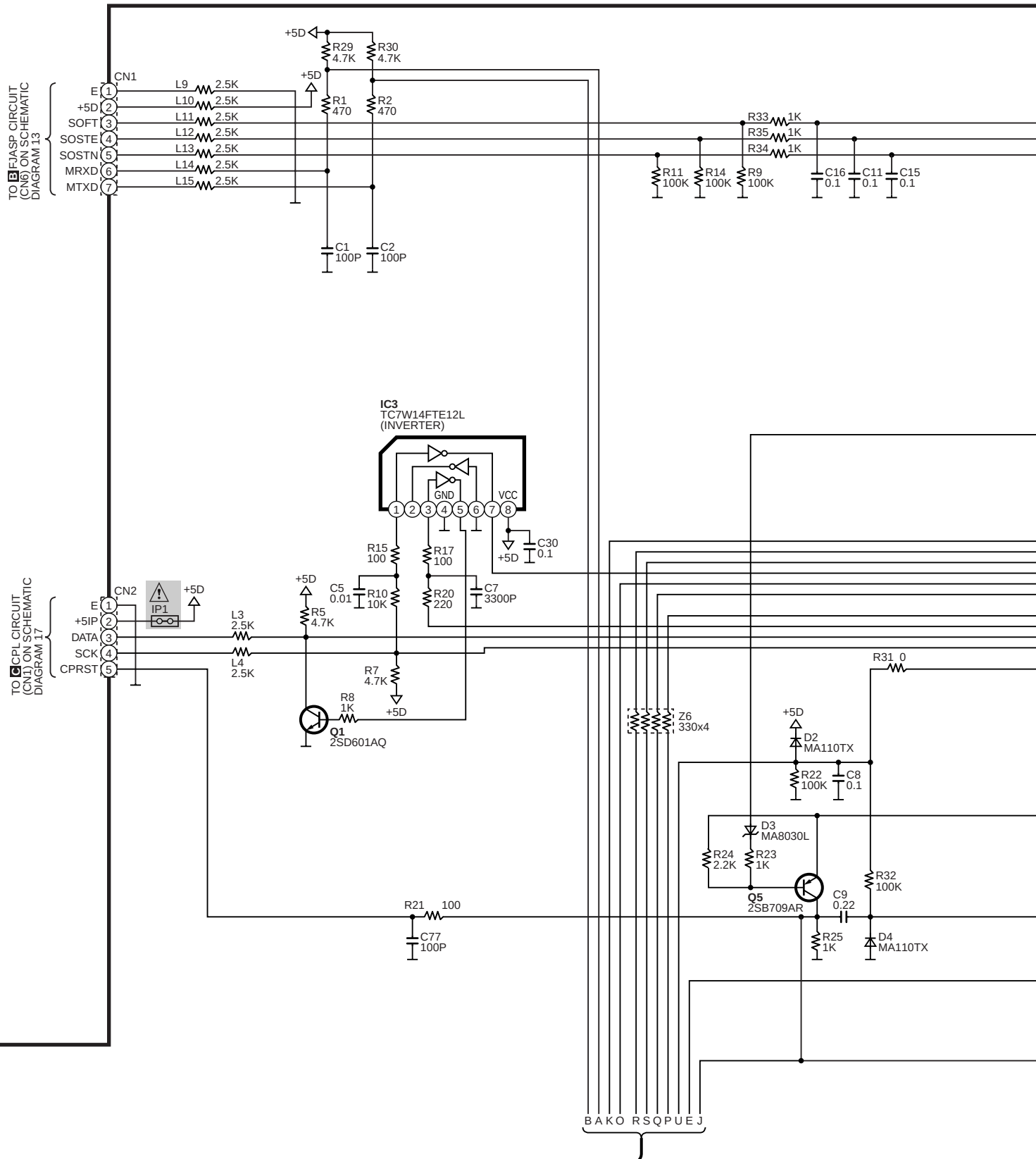
SCHEMATIC DIAGRAM-4



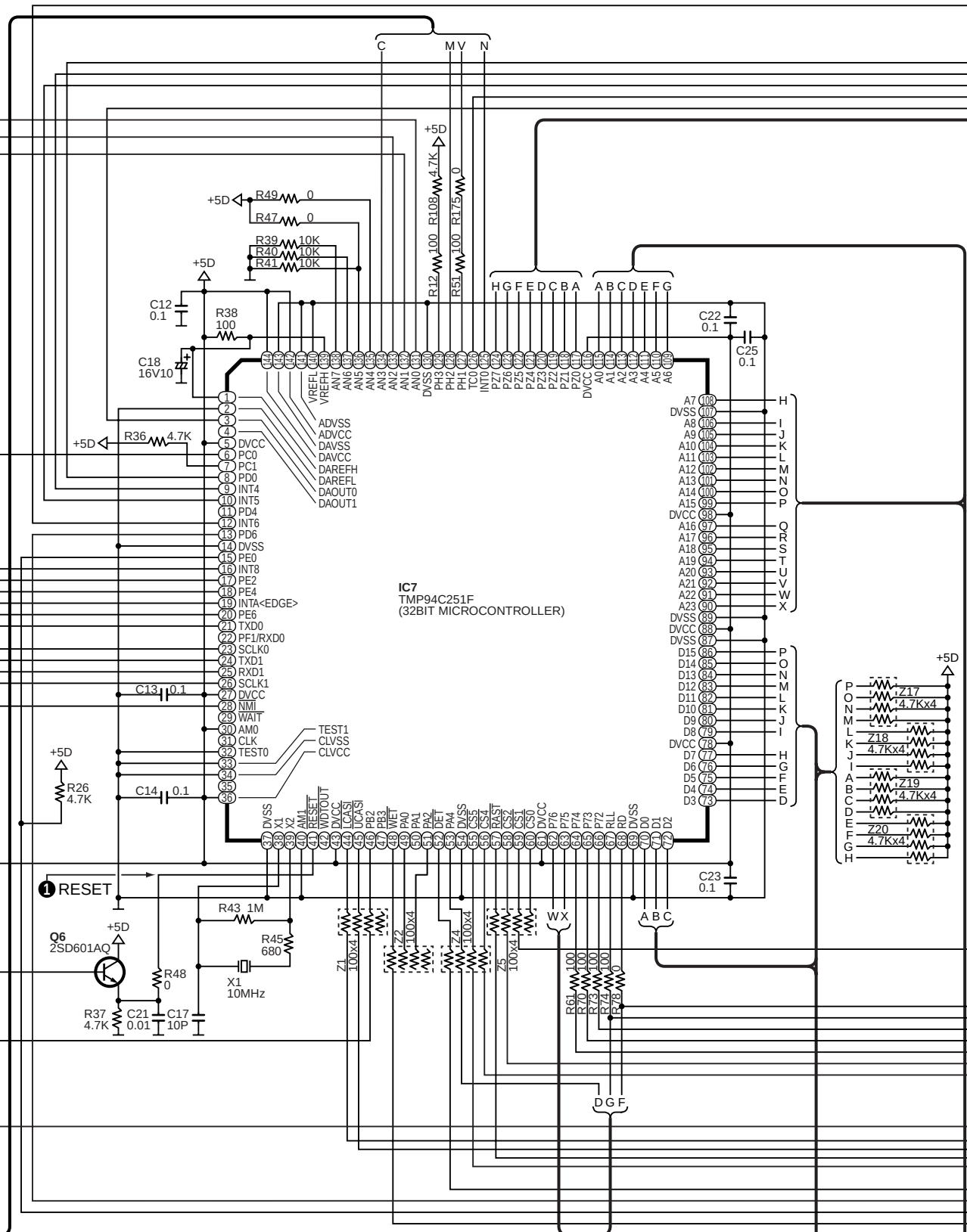
SCHEMATIC DIAGRAM-5



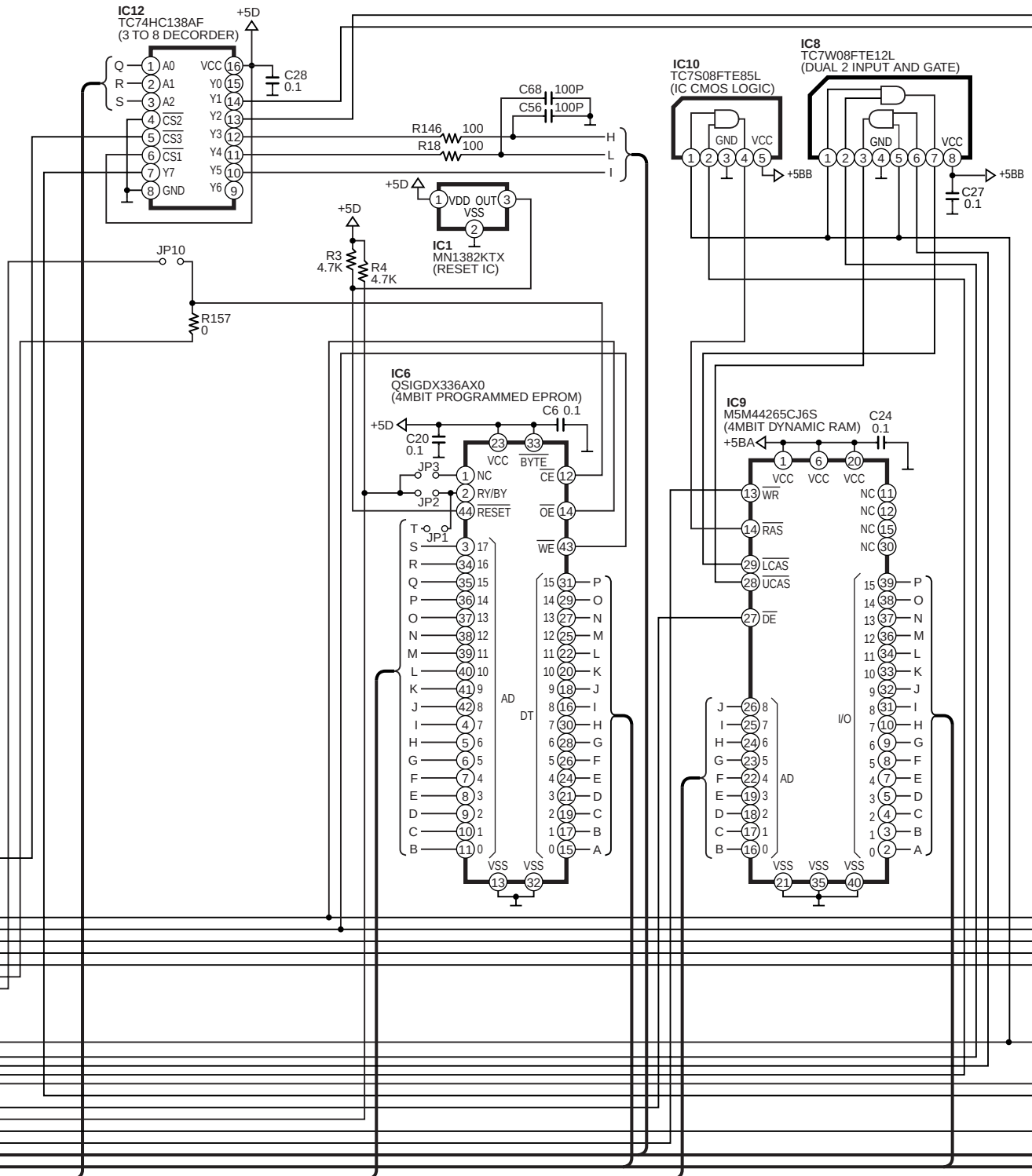
SCHEMATIC DIAGRAM-6



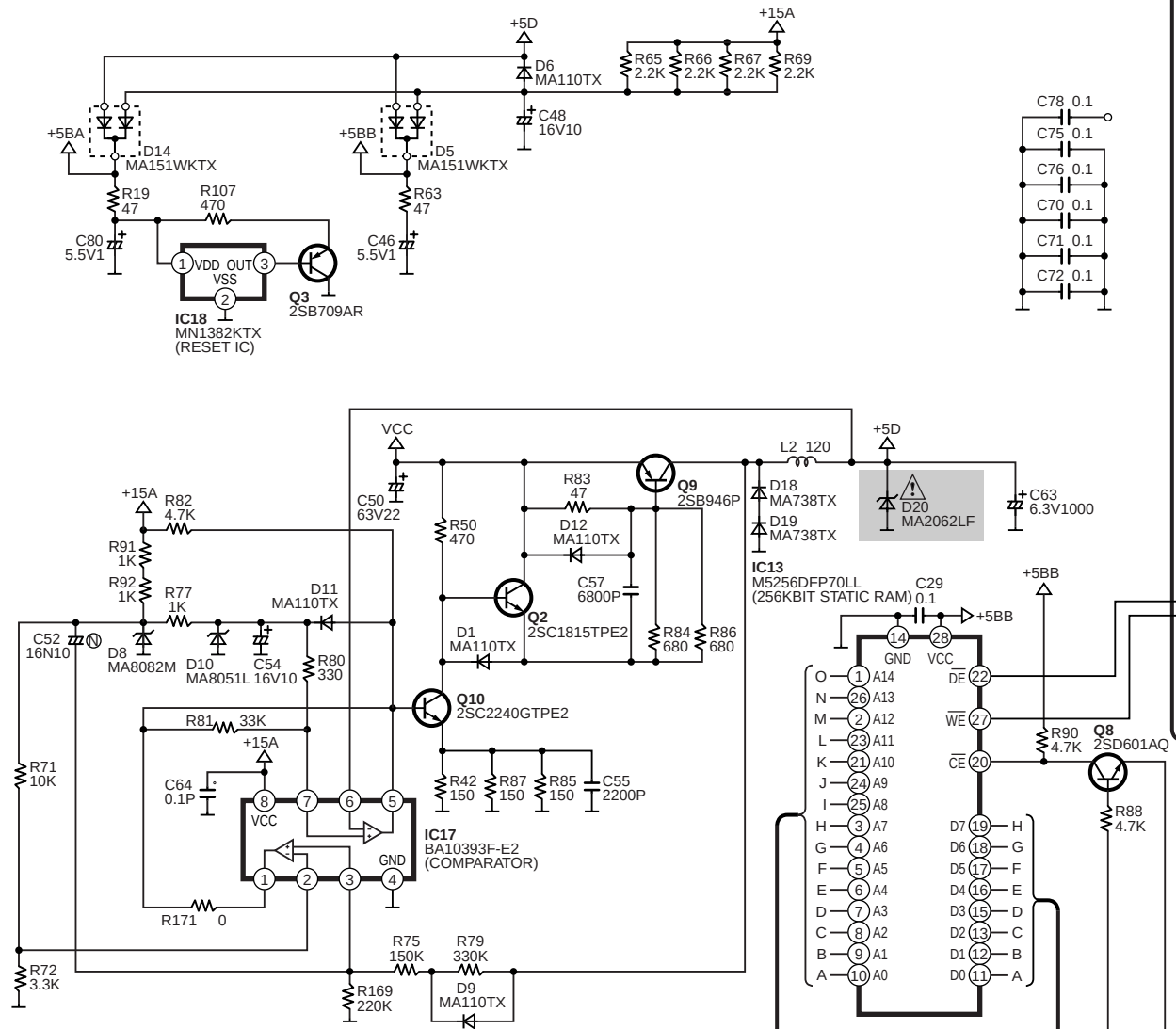
SCHEMATIC DIAGRAM-7



SCHEMATIC DIAGRAM-8



SCHEMATIC DIAGRAM-9

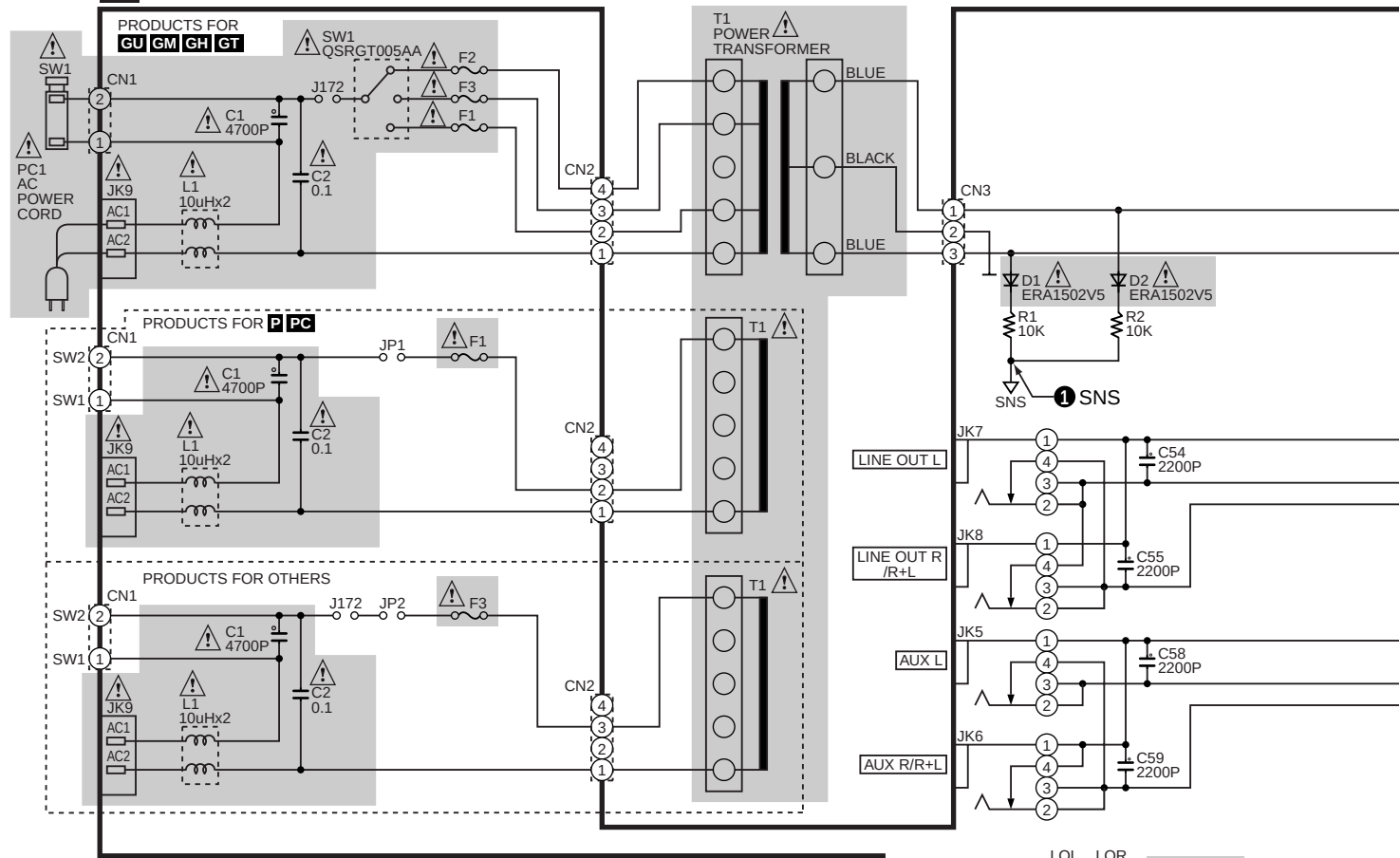


SCHEMATIC DIAGRAM-10

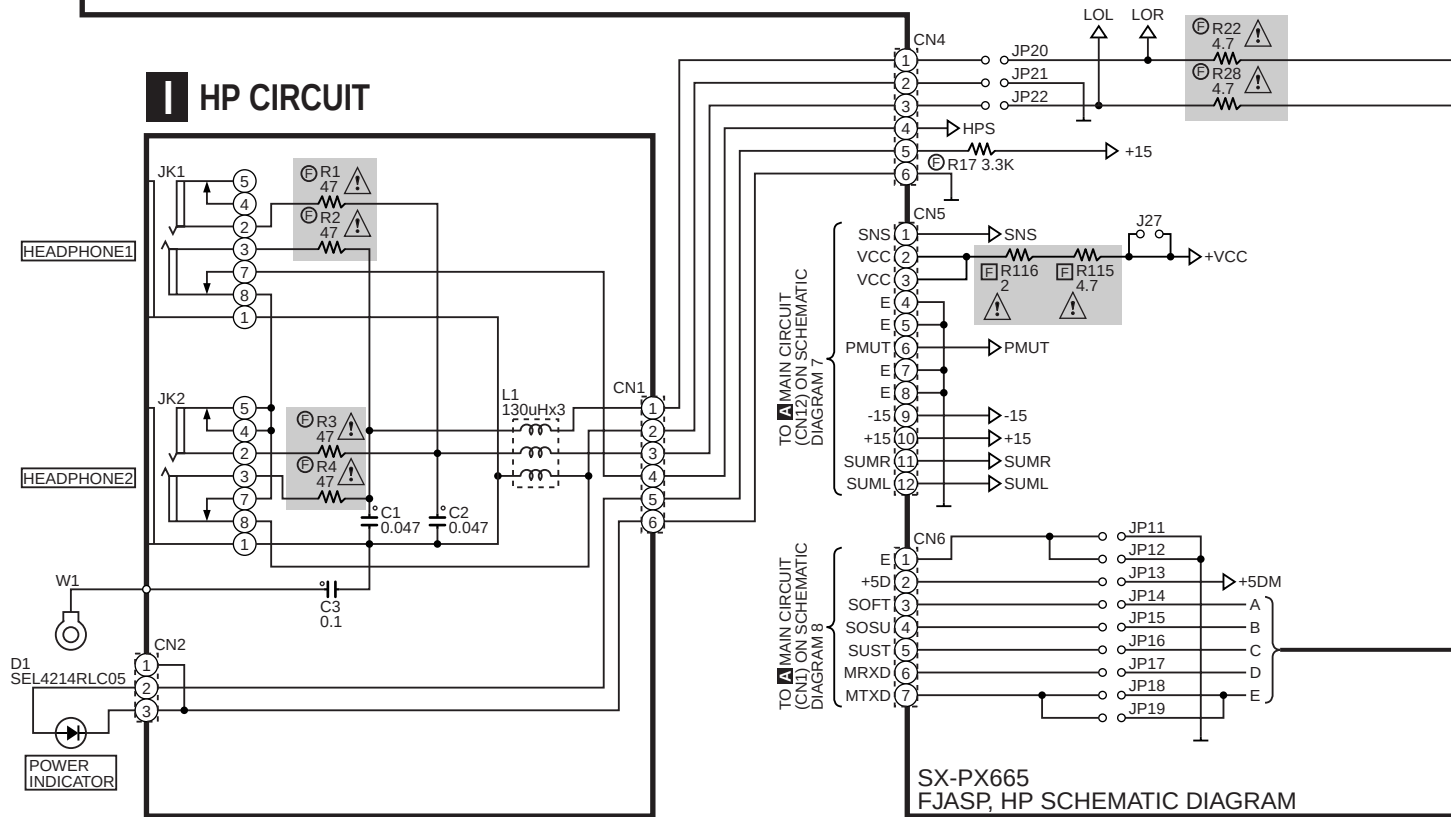


SCHEMATIC DIAGRAM-11

B FJASP CIRCUIT

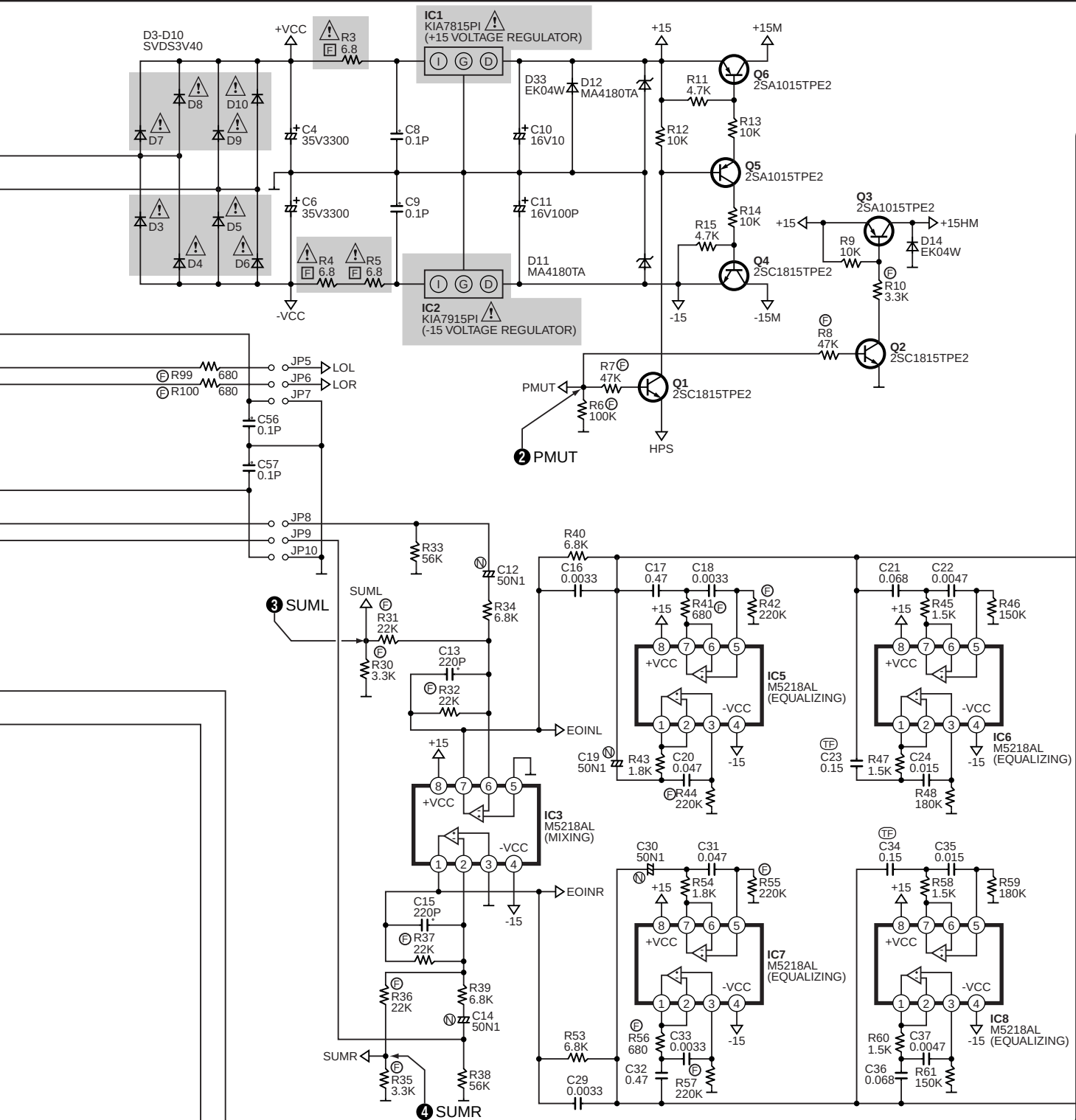


I HP CIRCUIT

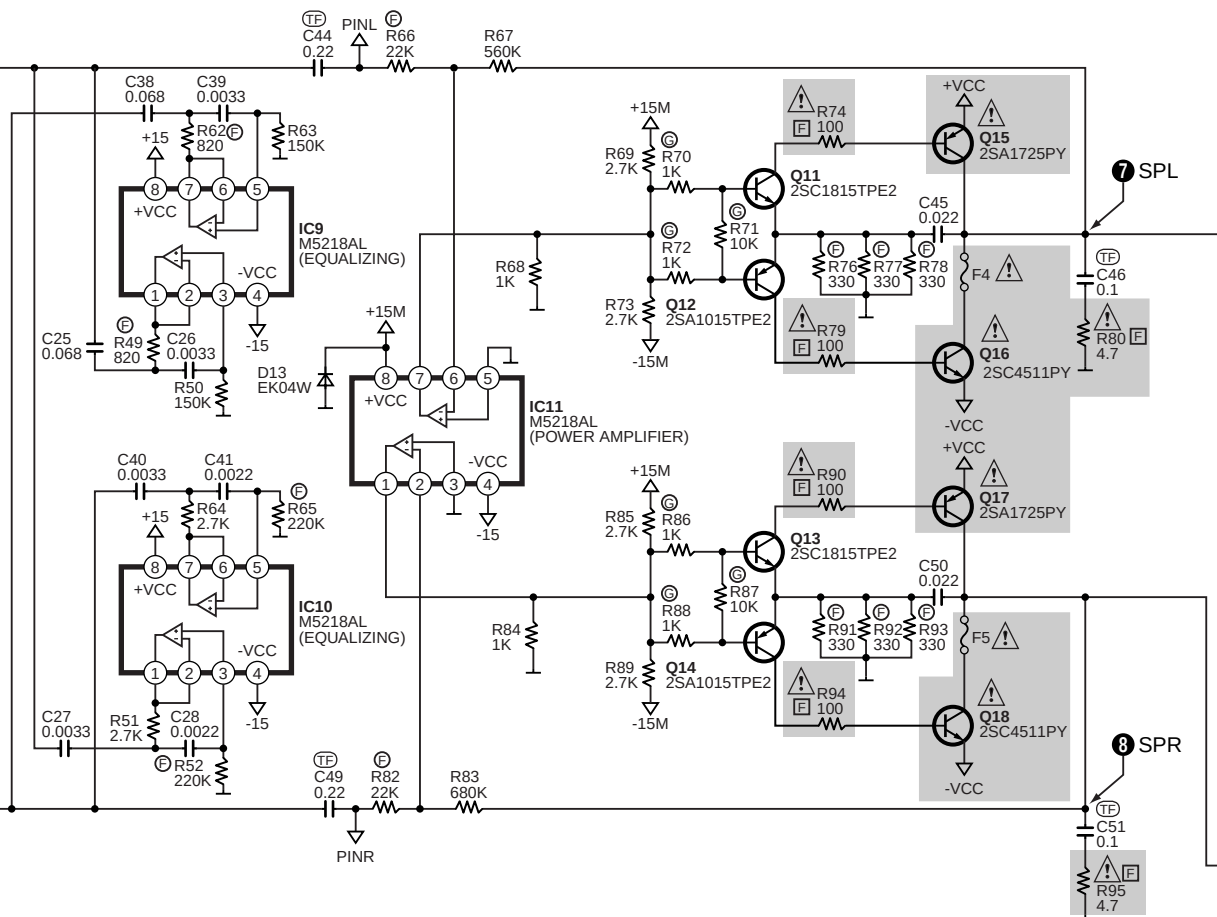


SX-PX665
FJASP, HP SCHEMATIC DIAGRAM

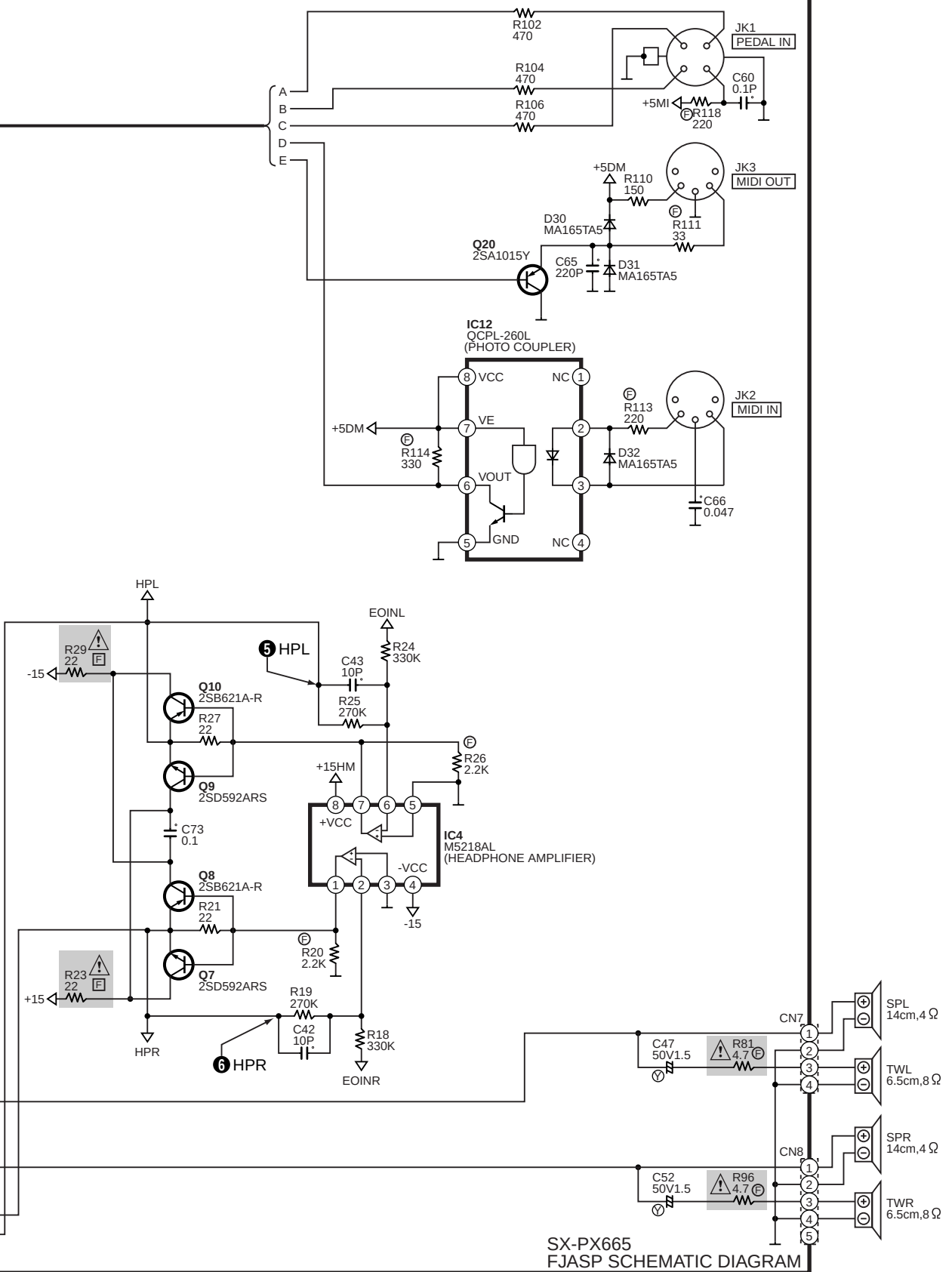
SCHEMATIC DIAGRAM-12



SCHEMATIC DIAGRAM-13

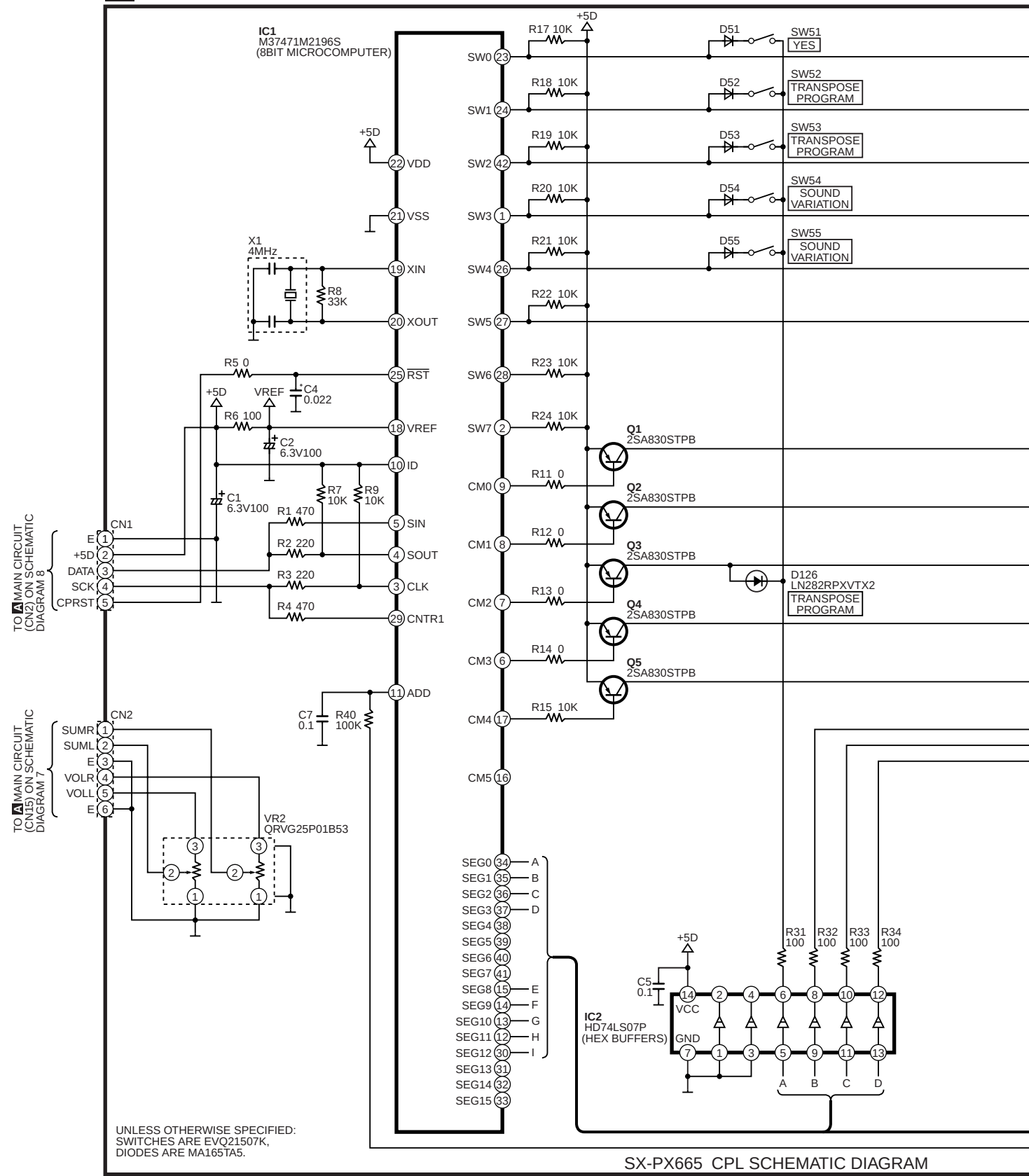


SCHEMATIC DIAGRAM-14



SCHEMATIC DIAGRAM-15

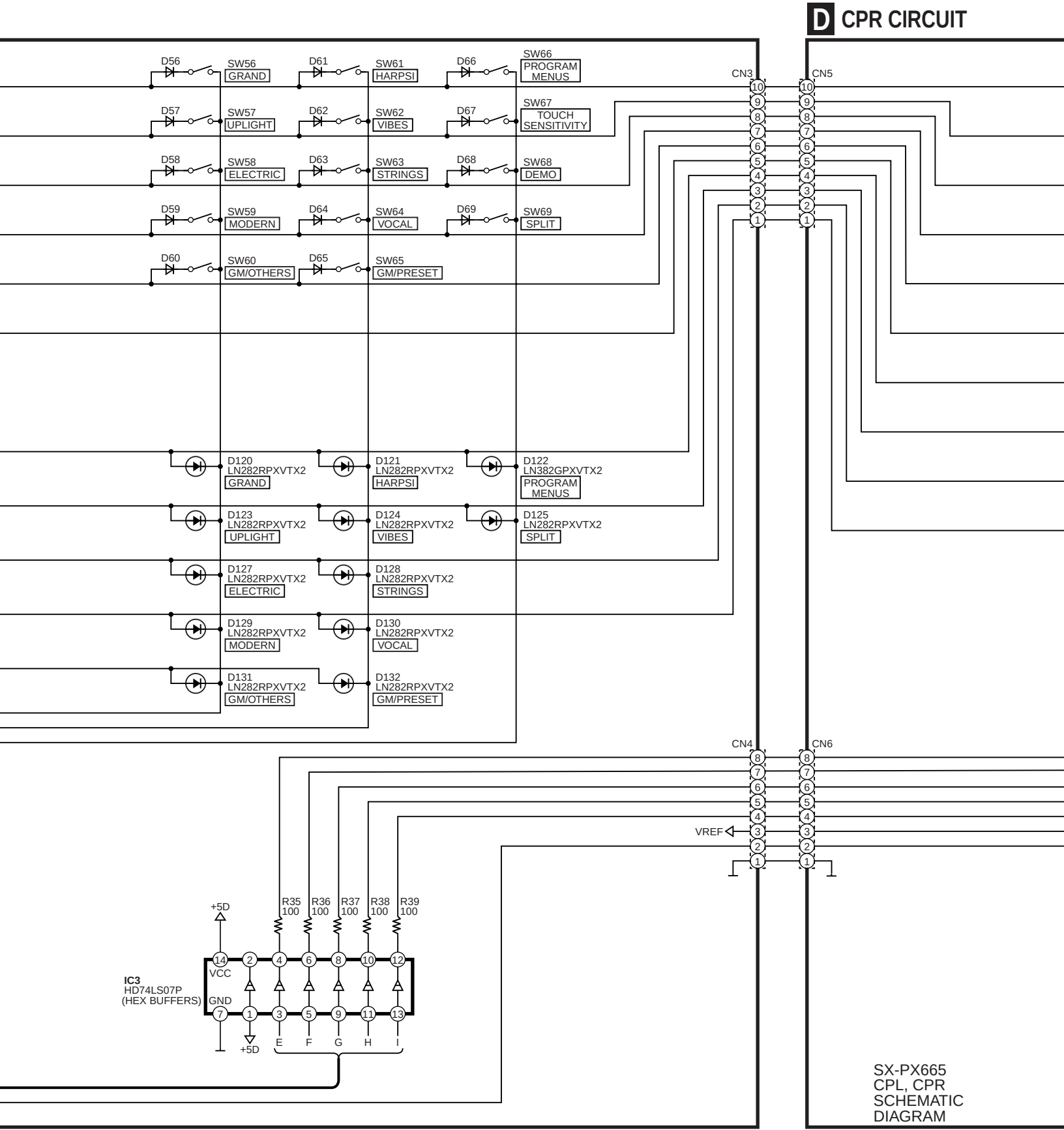
C CPL CIRCUIT



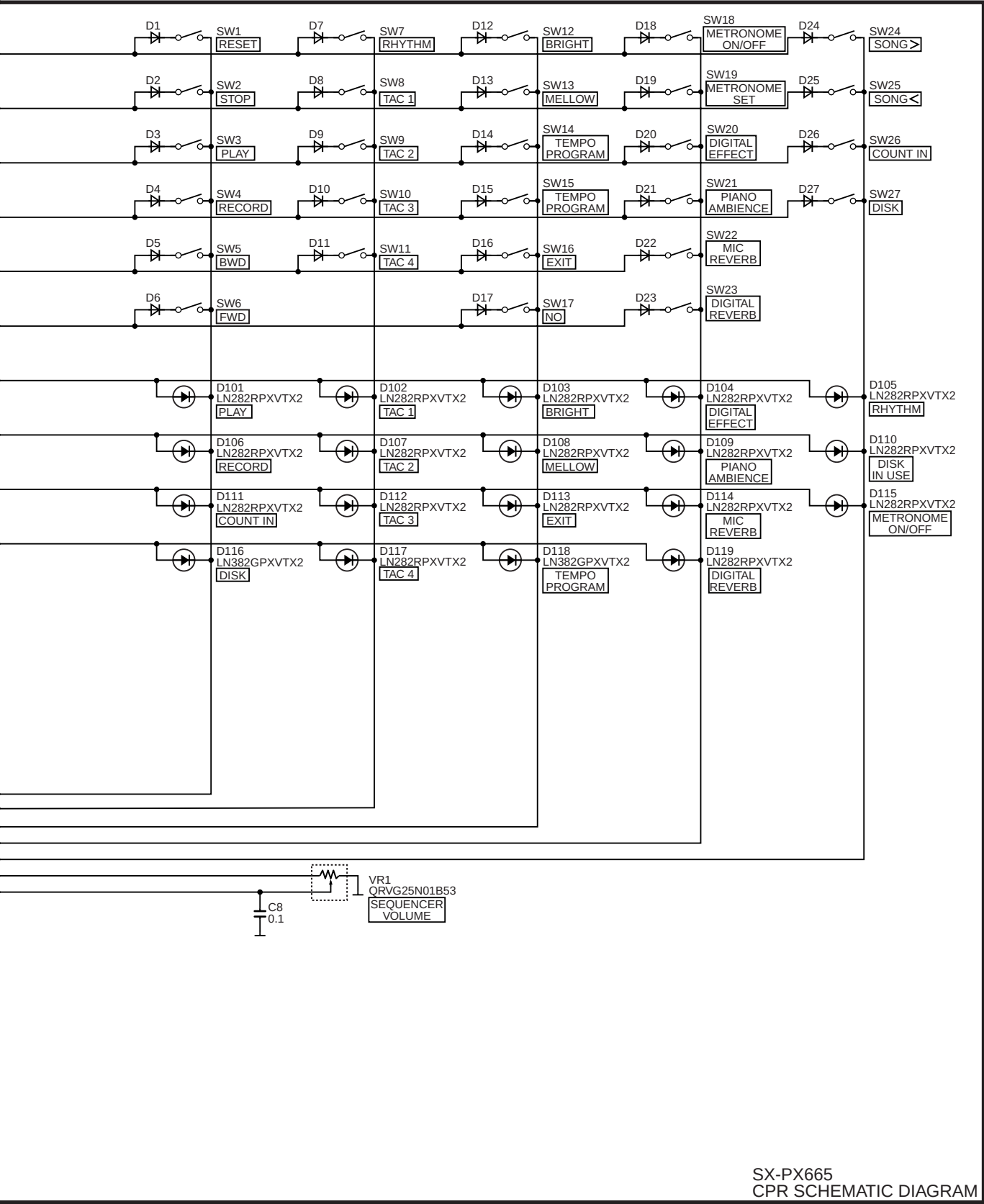
SX-PX665 CPL SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM-16

D CPR CIRCUIT

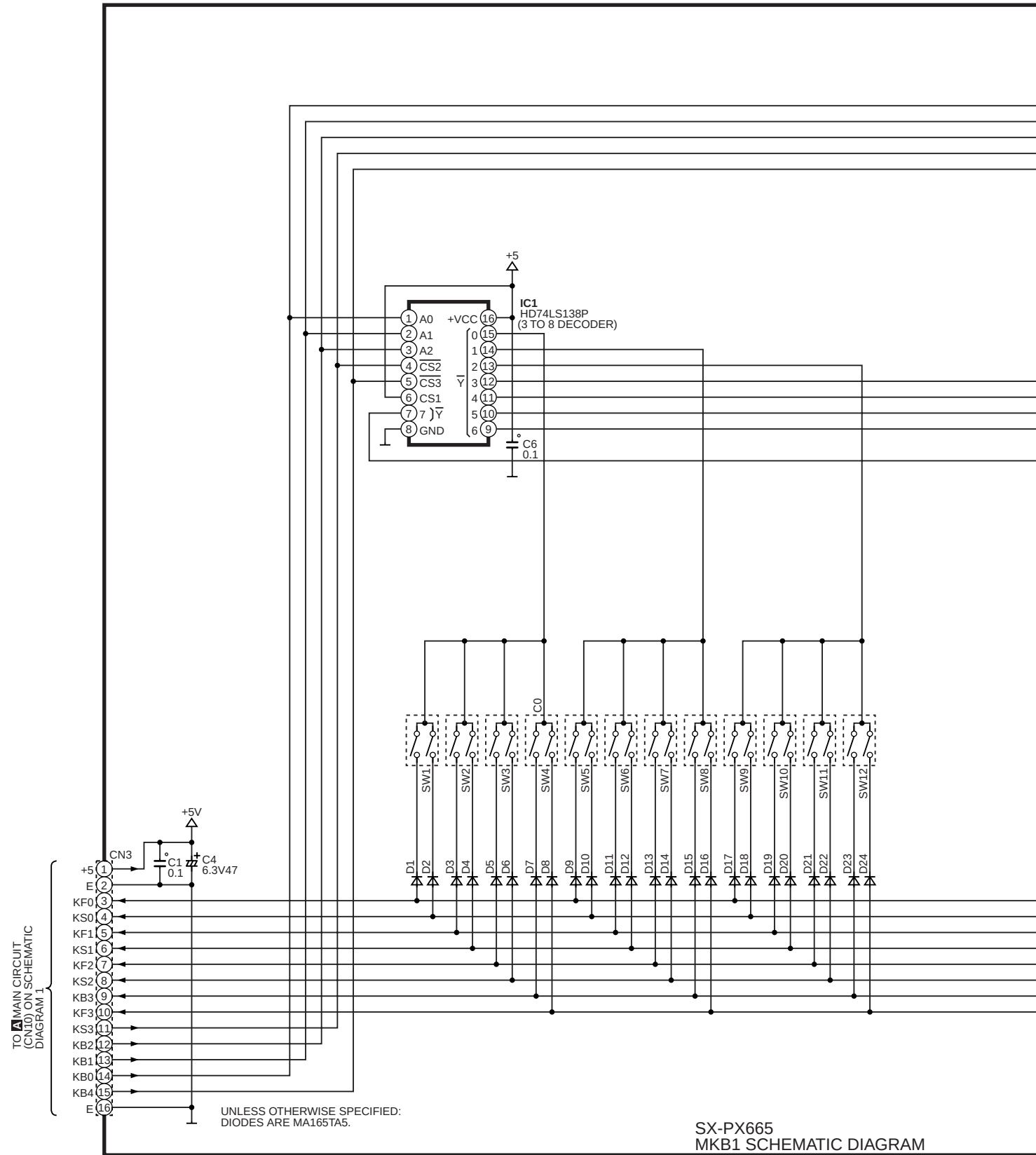


SCHEMATIC DIAGRAM-17

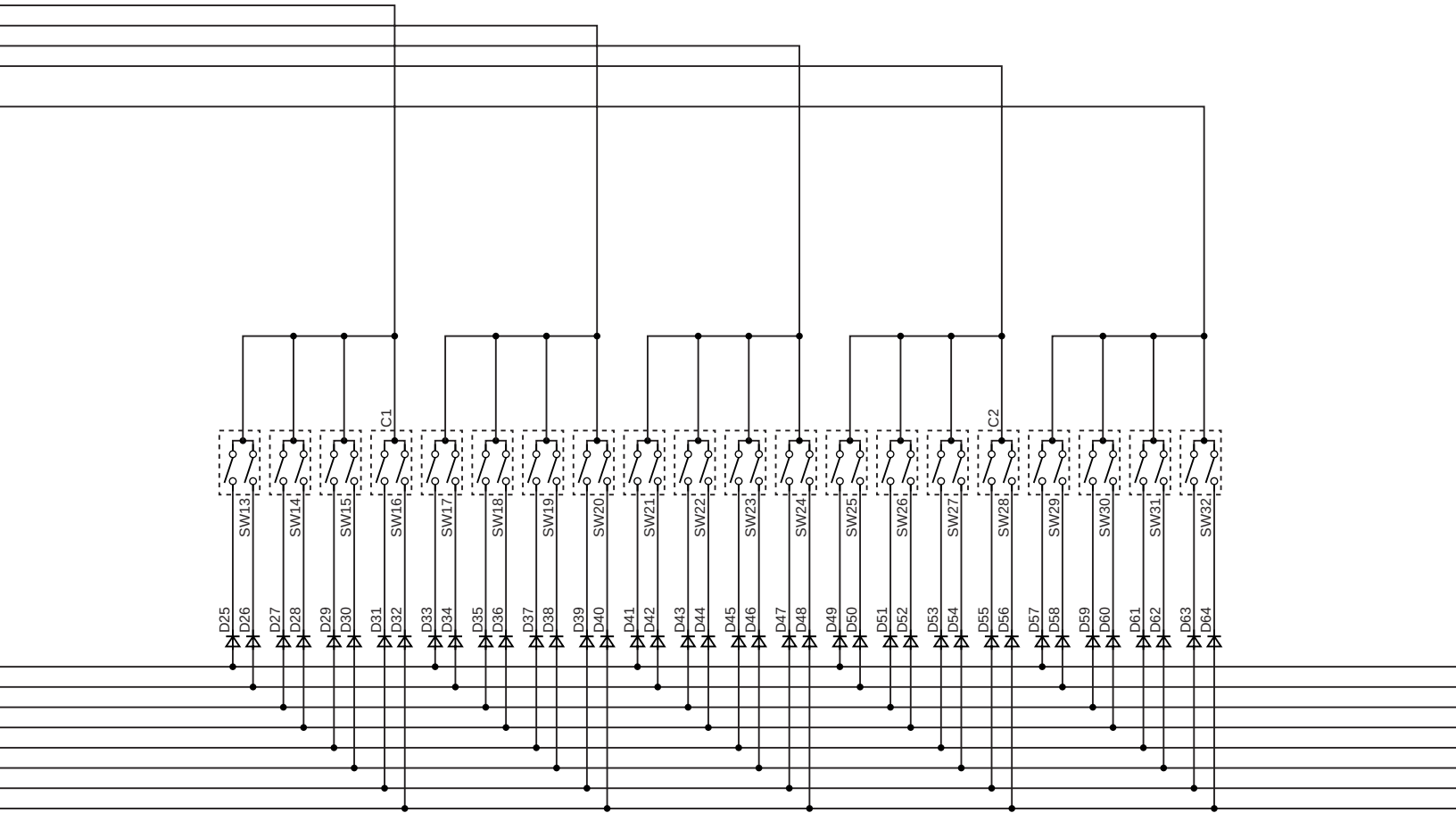


SCHEMATIC DIAGRAM-18

E MKB1 CIRCUIT

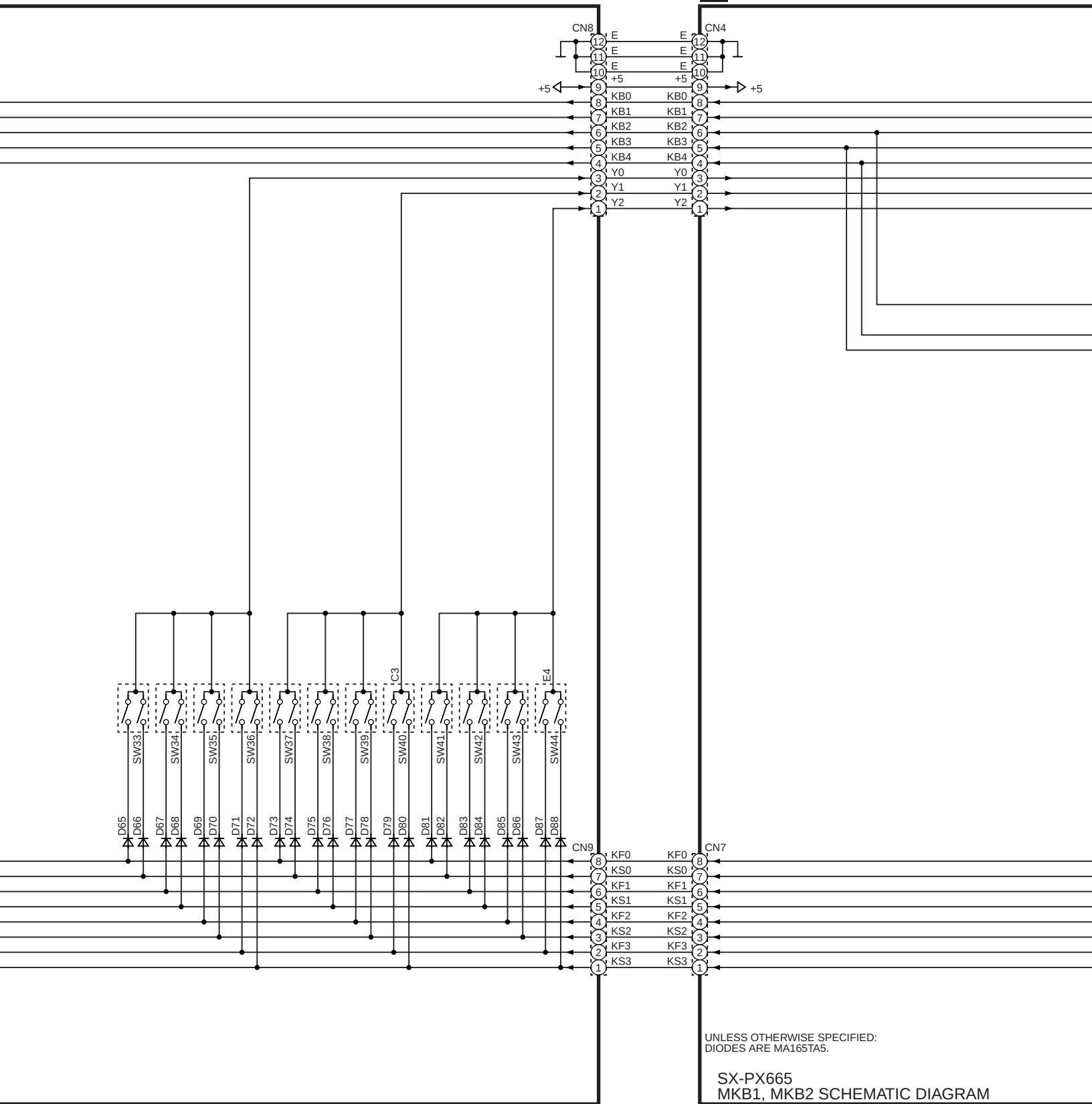


SCHEMATIC DIAGRAM-19



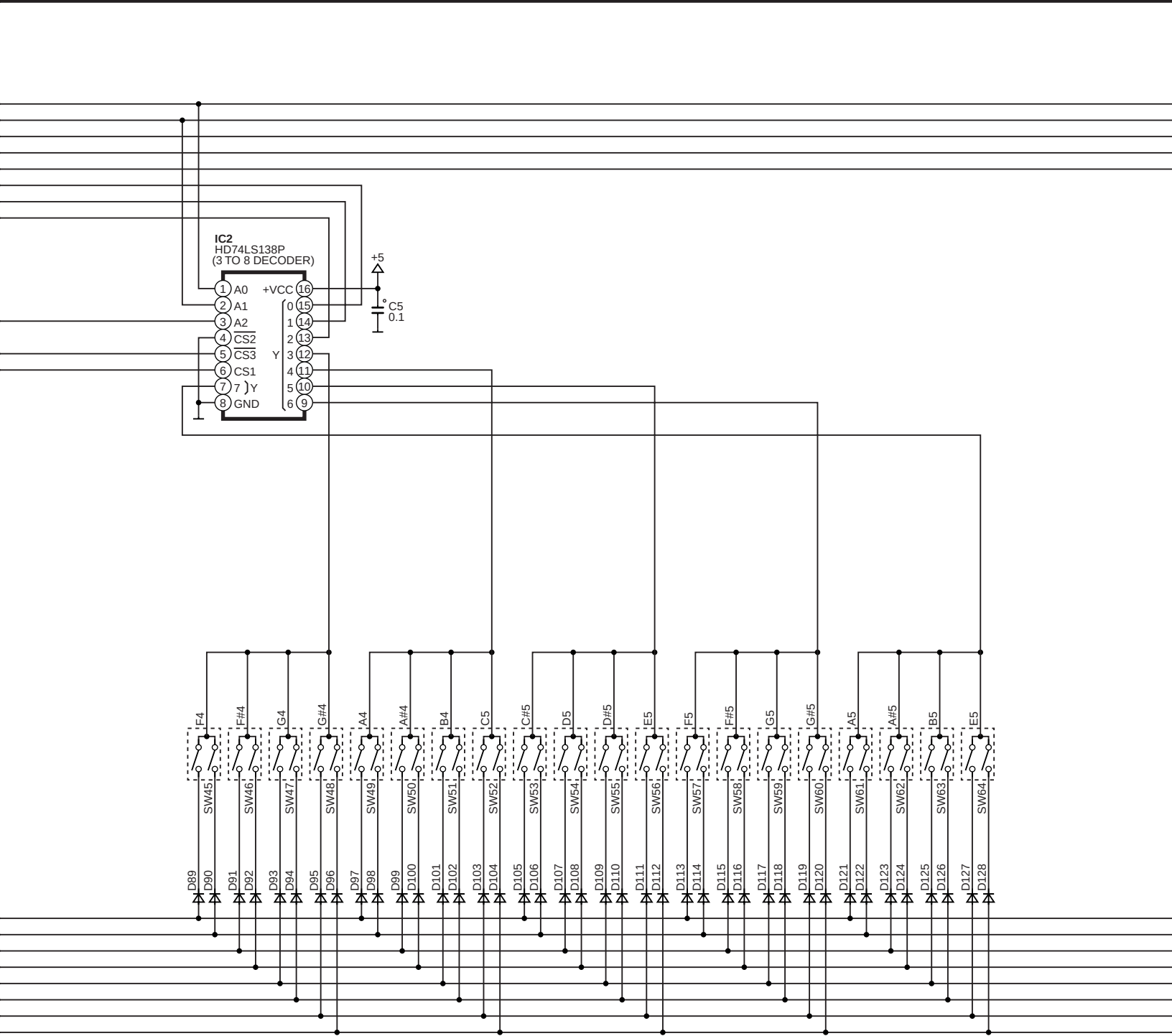
SCHEMATIC DIAGRAM-20

F MKB2 CIRCUIT

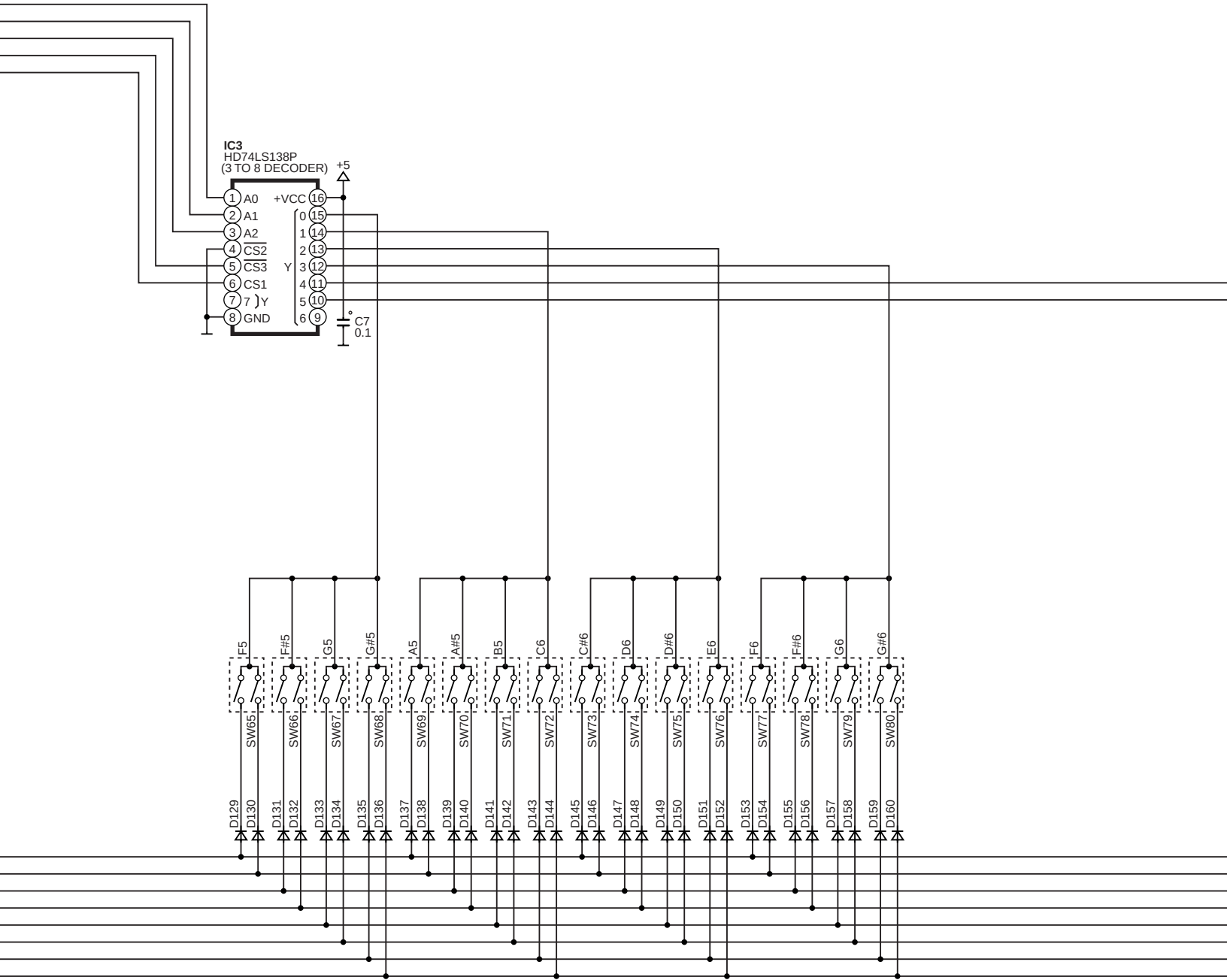


UNLESS OTHERWISE SPECIFIED:
DIODES ARE MA165TA5.

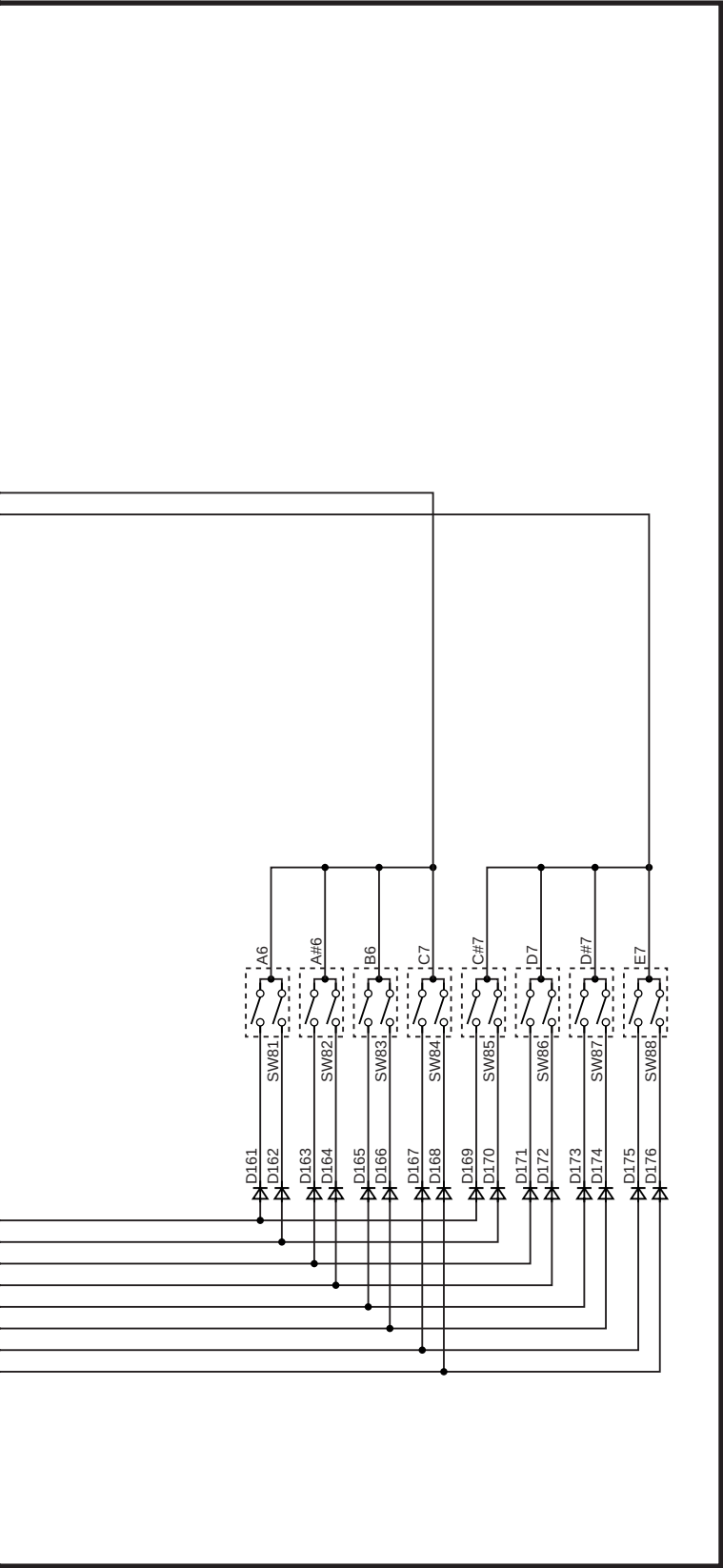
SCHEMATIC DIAGRAM-21



SCHEMATIC DIAGRAM-22

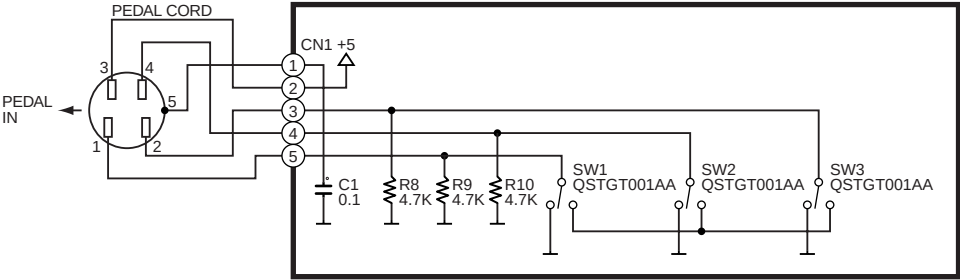


SCHEMATIC DIAGRAM-23

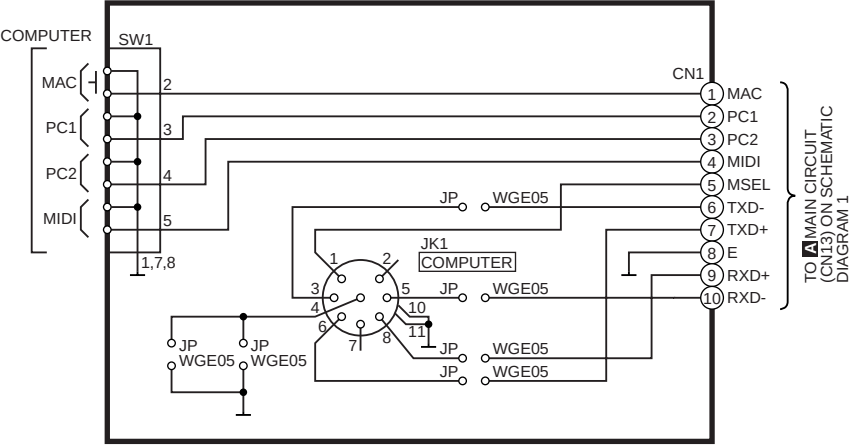


SCHEMATIC DIAGRAM-24

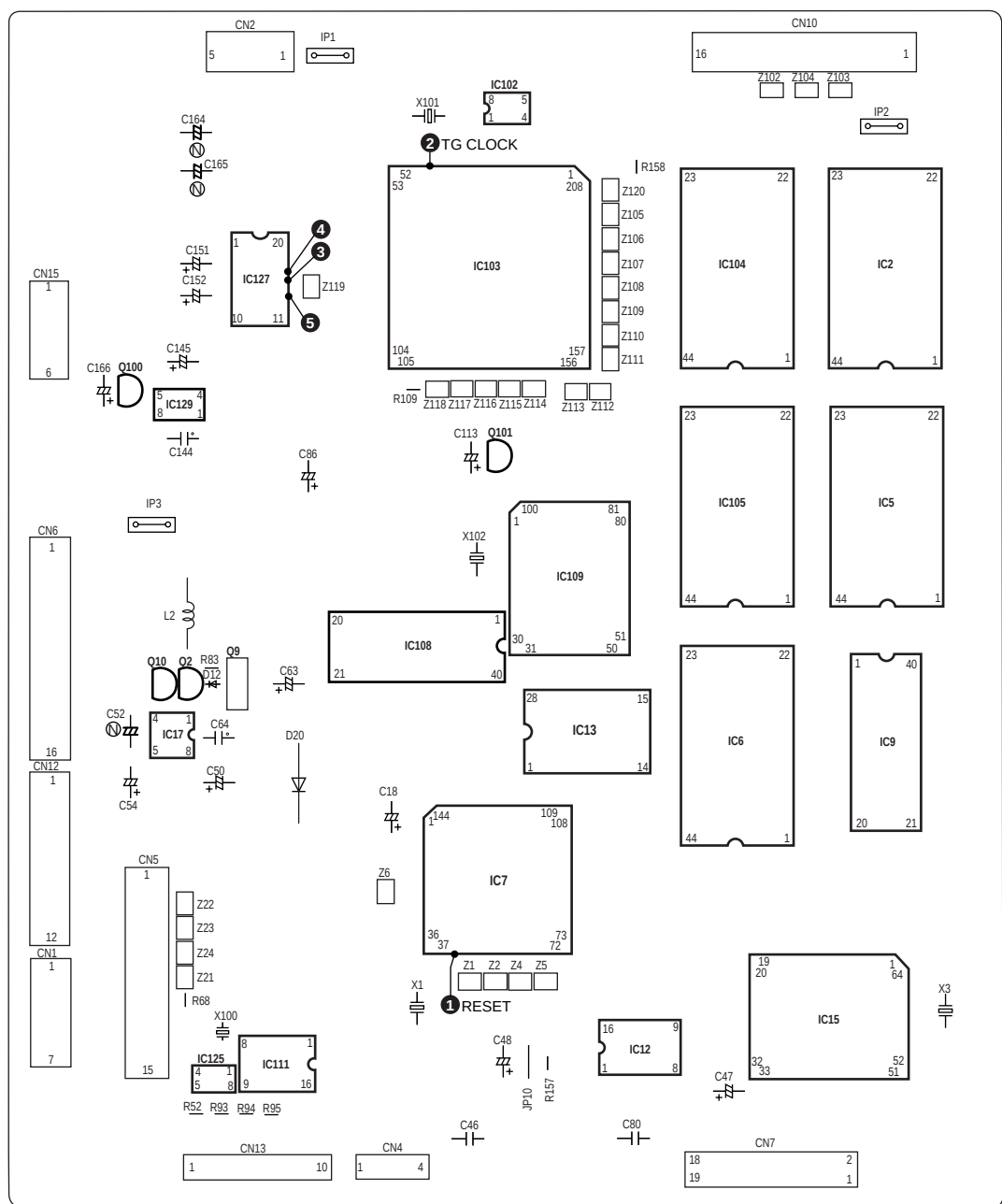
G PKB CIRCUIT



H COM CIRCUIT

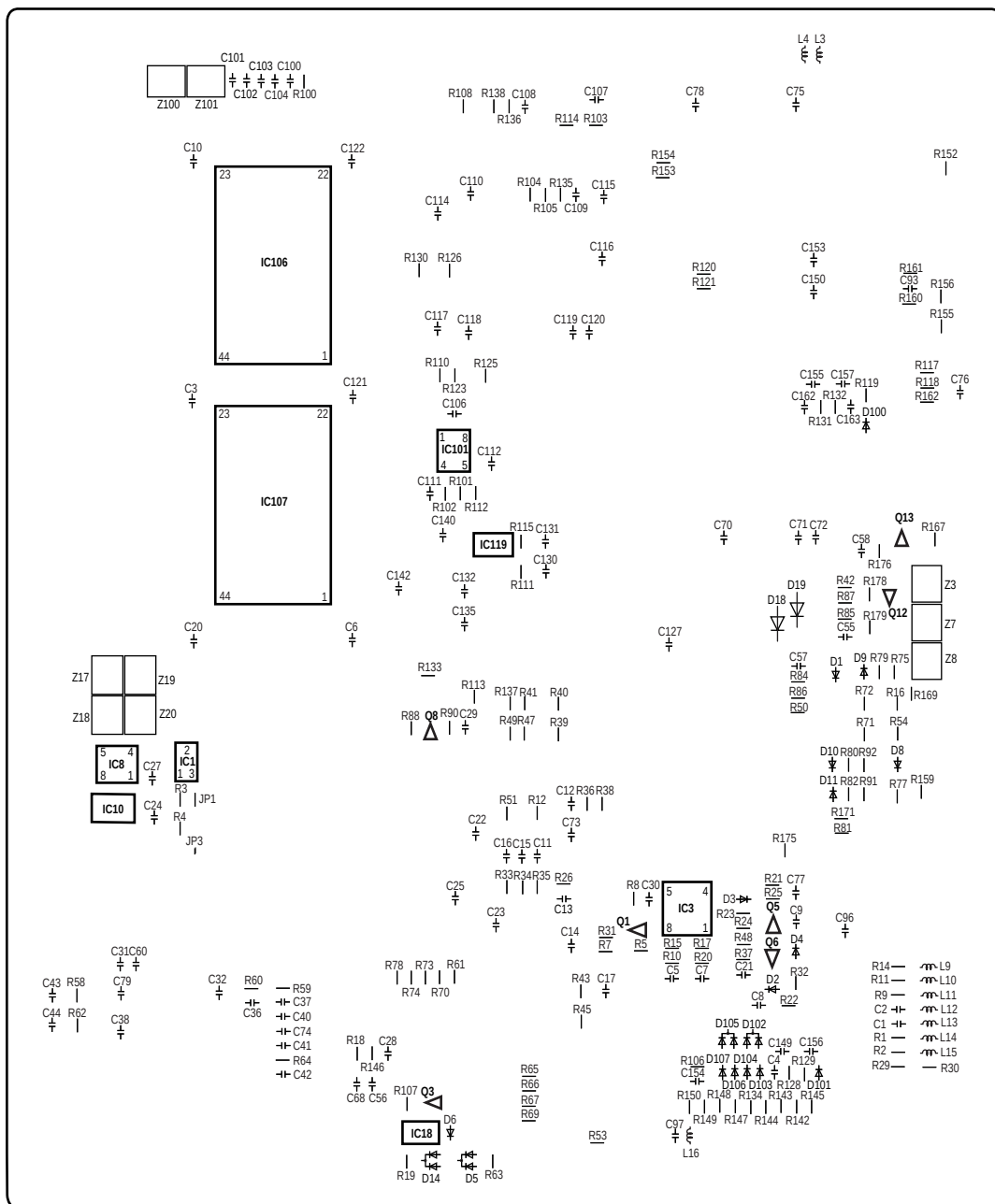


A MAIN P.C.B. (COMPONENT SIDE)



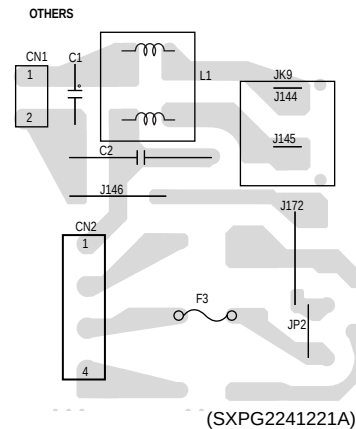
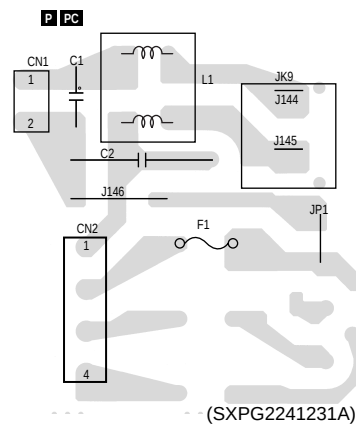
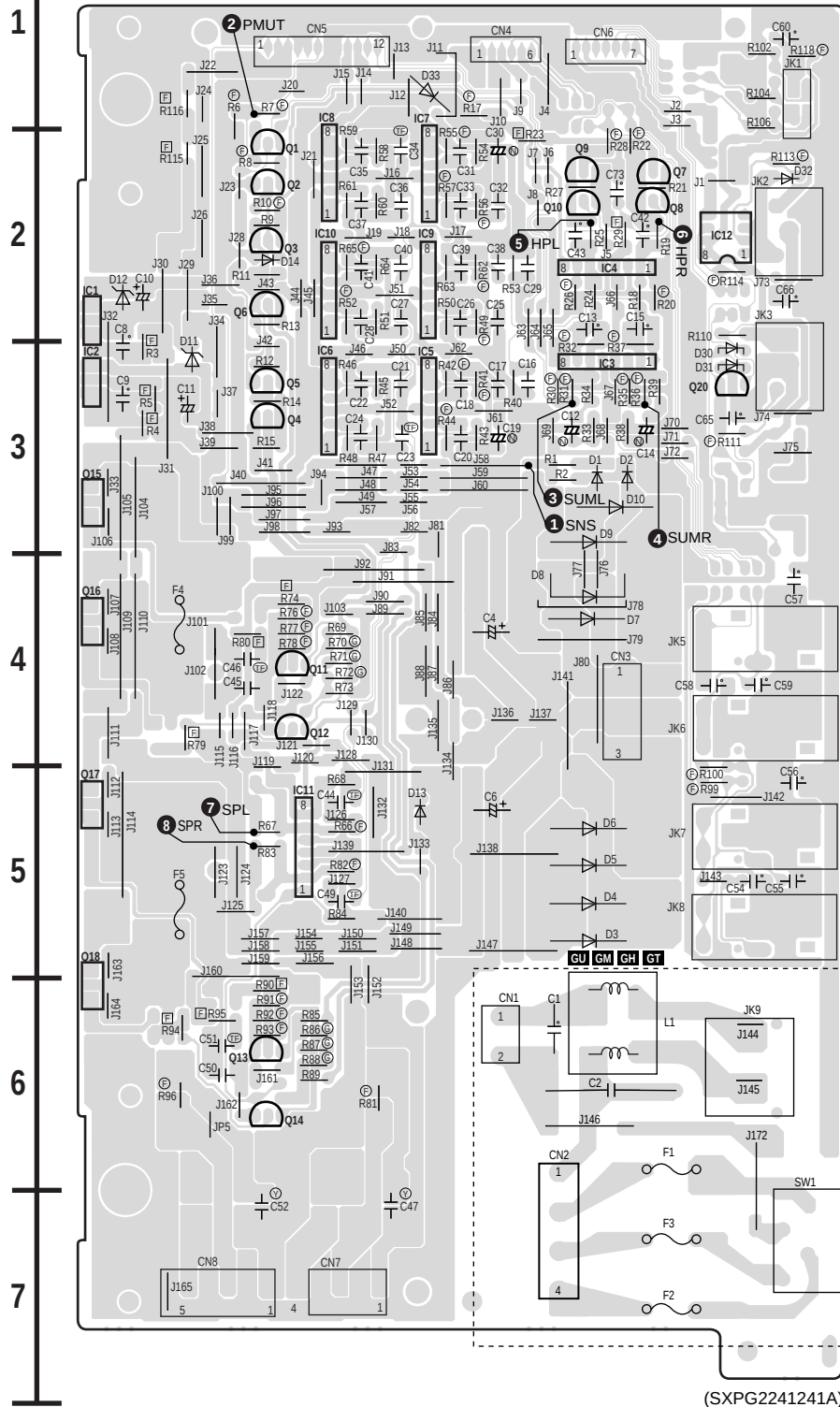
(SXPG231341)

A MAIN P.C.B. (FOIL SIDE)



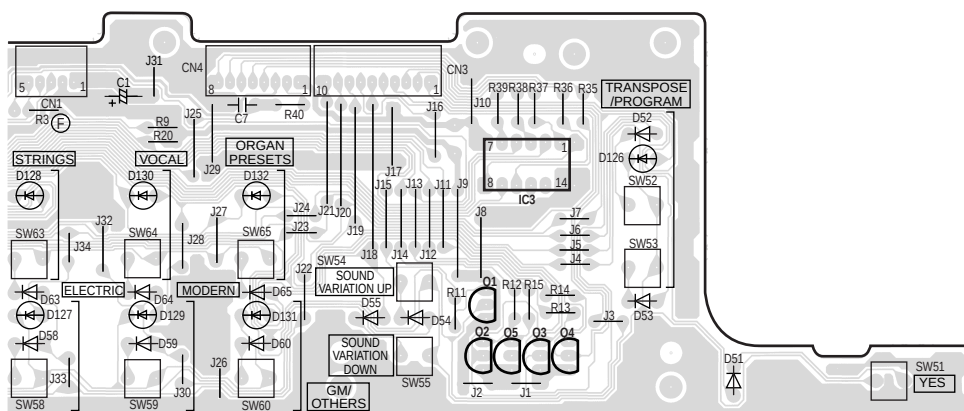
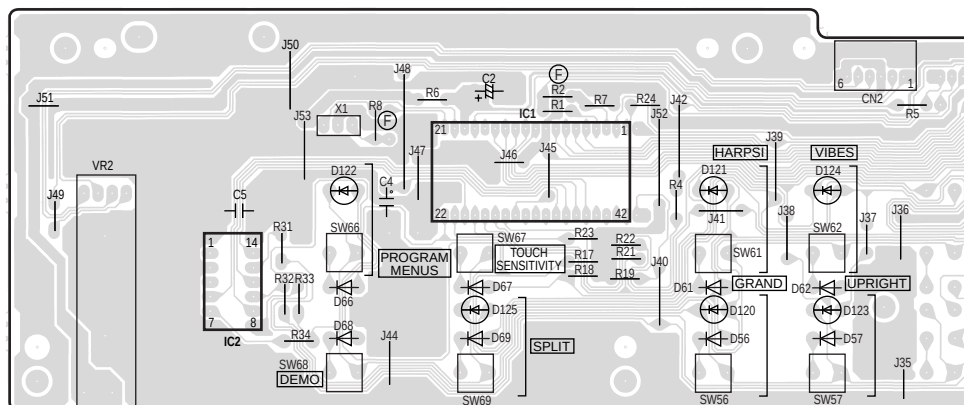
(SXPG231341)

B FJASP P.C.B.



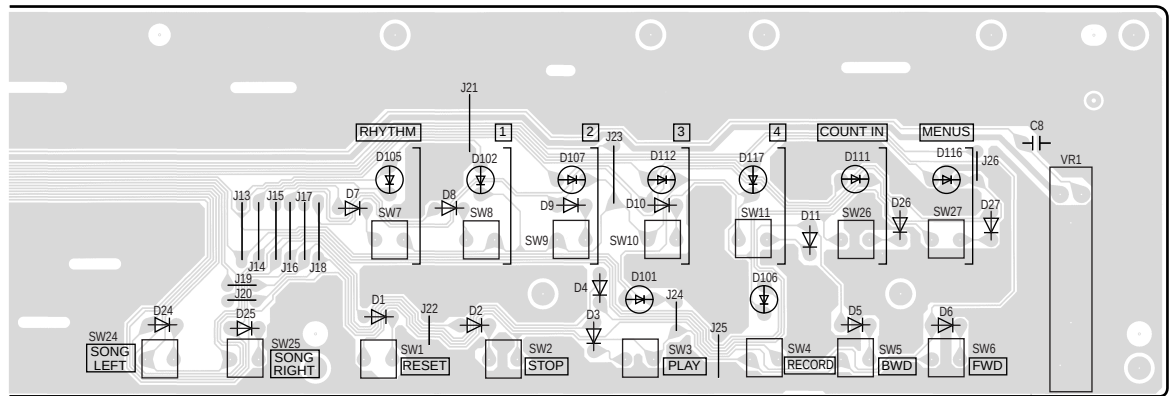
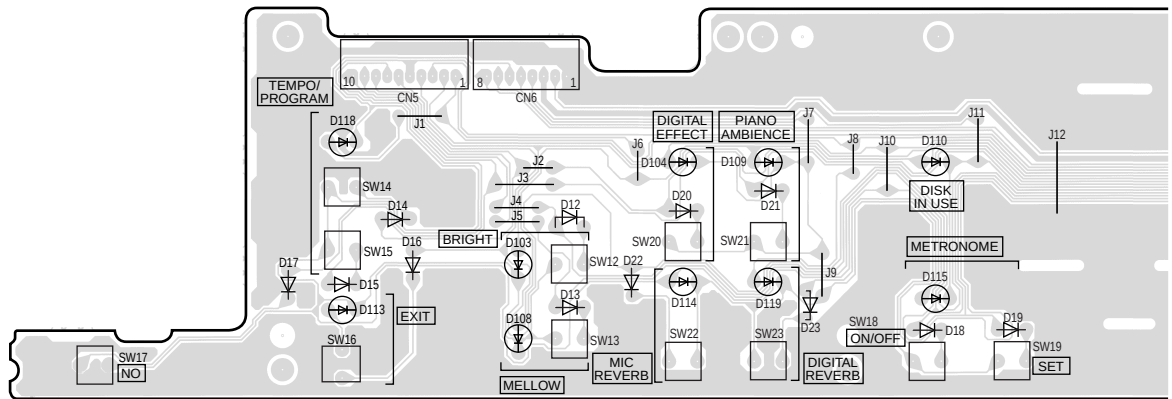
SX-PX665
FJASP P.C.B.
SXPG2241231A : (P, PC) AREAS
SXPG2241241A : (GU, GM, GH, GT) AREAS
SXPG2241221A : OTHER AREAS

C CPL P.C.B.



(SXPG231411A)

D CPR P.C.B.



(SXPG231421B)

4

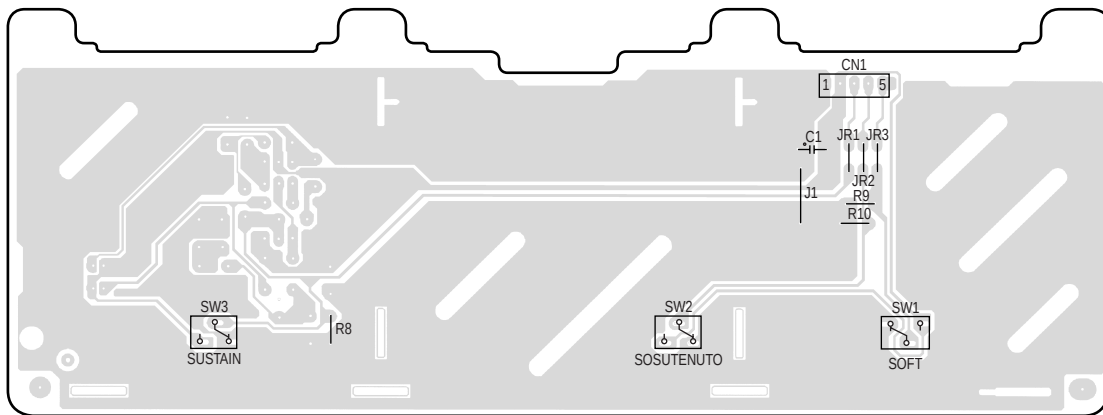
The image shows the PCB layout of the SXPG231111A board. It features two rows of components. The top row includes connectors CN8, J15, CN9, and J14, followed by diodes D88 through D73, D72 through D65, D64 through D57, D56 through D49, and D48 through D45. The bottom row includes diodes D44 through D41, D40 through D33, IC1, D32 through D25, D24 through D17, D16 through D9, D8 through D1, and C4. The board also has two rows of switches labeled SW44 through SW23 and SW22 through SW1. The layout is symmetrical with components arranged in a regular grid.

7

PCB layout for the SXPG231111B board, showing two rows of components. The top row includes components SW88 to SW67, IC3, and various diodes (D176-D134). The bottom row includes components SW66 to SW45, IC2, and various diodes (D132-D89). The layout shows the placement of these components on the PCB, with labels for each component and its pin connections.

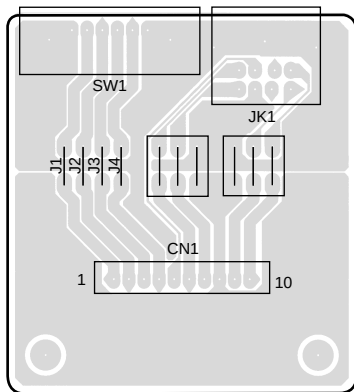
SX-PX665
MKB1, MKB2 P.C.B.
SXPG231111A : MKB1 P.C.B.
SXPG231111B : MKB2 P.C.B.

G PKB P.C.B.



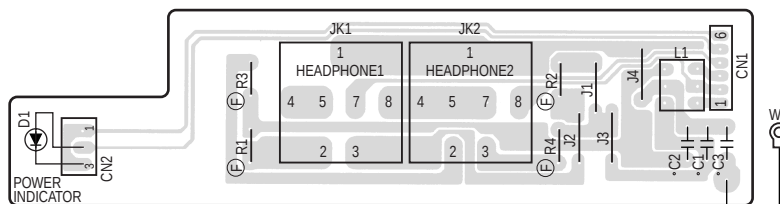
(SXPG218221)

H COM P.C.B.



(SXPG227921)

I HP P.C.B.



(SXPG224322)

SX-PX665
 PKB, COM, HP P.C.B.
 SXPG218221 : PKB P.C.B.
 SXPG227921 : COM P.C.B.
 SXPG224322 : HP P.C.B.